Anti-ERG Antibody [SP06-04]

ET1604-21



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Tissue, IHC-P
Molecular Wt:	54 kDa
Clone number:	SP06-04
Description:	ERG (Erythroblast transformation-specific [ETS]-related gene) is a proto-oncogene, a member of the ETS family of transcription factors. Genes in the ETS family regulate embryonic development, cell proliferation, differentiation, angiogenesis, inflammation, and apoptosis. The ERG gene encodes for a nuclear protein, also called ERG, which is involved in hematopoietic and endothelial development. ERG remains constitually expressed ir endothelial cells in blood and lymphatic vessels, and in bone marrow stem cells. ERG is expressed in virtually all endothelial neoplasms including haemangioendothelioma angiosarcoma and Kaposi sarcoma. ERG is overexpressed secondary to gene rearrangement in cases of prostate adenocarcinoma (40-50%, the only type of carcinoma which may express ERG, due to a unique TMPRSS2-ERG gene fusion), gastrointestina stromal tumour (GIST; 40%*), synovial sarcoma (50%*), meningioma (80%), epithelioic sarcoma (40%), malignant rhabdoid tumour, acute myeloid leukemia and blastic extramedullary myeloid tumor (70%), and rarely Ewing sarcoma / primitive periphera neuroectodemal tumour (pPNET), chondrosarcoma*, osteosarcoma*, and rhabdomyosarcoma*.
lmmunogen:	Synthetic peptide within Human ERG aa 430-479 / 479.
Positive control:	Jurkat cell lysates, CRC, PC-3M, human colon carcinoma tissue, mouse brain tissue, mouse heart tissue, human spleen tissue, human kidney tissue.
Subcellular location:	Cytoplasm, Nucleus.
Database links:	SwissProt: P11308 Human P81270 Mouse Unigene: 47987 Rat
Recommended Dilutions WB IF-Tissue IHC-P	: 1:2,000-1:5,000 1:200-1:500 1:200-1:1,000
Storage Buffer:	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.
Storage Instruction:	Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C or -80 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.
	cycles.

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Orders:0086-571-88062880

Technical:0086-571-89986345

5 Service mail:support@huabio.cn



Images

Fig1: Western blot analysis of ERG on Jurkat cell lysates with Rabbit anti-ERG antibody (ET1604-21) at 1/2,000 dilution.

Lysates/proteins at 20 µg/Lane.

Predicted band size: 54 kDa Observed band size: 54 kDa

Exposure time: 20 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1604-21) at 1/2,000 dilution was used in 5% NFDM/TBST at 4° C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of ERG on different lysates with Rabbit anti-ERG antibody (ET1604-21) at 1/2,000 dilution.

Lane 1: Mouse lung tissue lysate Lane 2: Mouse spleen tissue lysate Lane 3: Rat brain tissue lysate Lane 4: Rat lung tissue lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 54 kDa Observed band size: 54 kDa

Exposure time: 1 minutes 2 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1604-21) at 1/2,000 dilution was used in 5% NFDM/TBST at 4° C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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kDa_Jutt

ERG

-54kDa

GAPDH

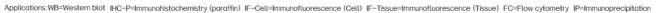
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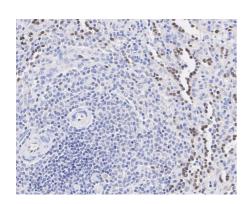
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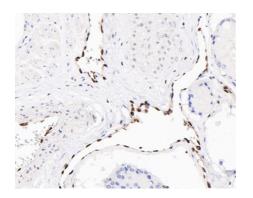
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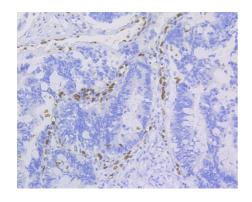
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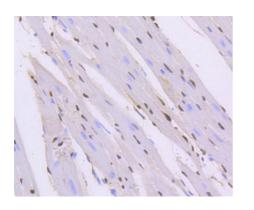


Fig3: Immunohistochemical analysis of paraffin-embedded human spleen tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig4: Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/100 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig5: Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig6: Immunohistochemical analysis of paraffin-embedded mouse heart tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

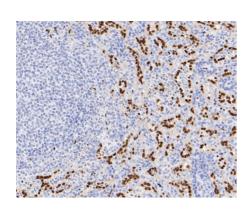
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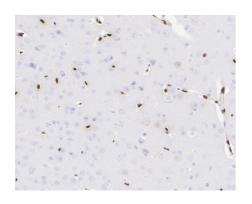
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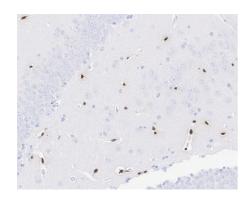
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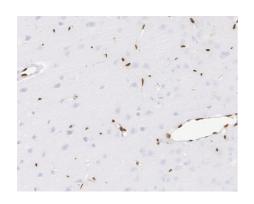


Fig7: Immunohistochemical analysis of paraffin-embedded human spleen tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig8: Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig9: Immunohistochemical analysis of paraffin-embedded mouse hippocampus tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig10: Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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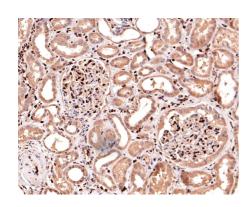


Fig11: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

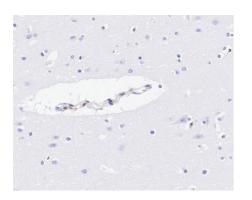


Fig12: Immunohistochemical analysis of paraffin-embedded human brain tissue with Rabbit anti-ERG antibody (ET1604-21) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1604-21) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

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- 1. Asangani IA et al. Therapeutic targeting of BET bromodomain proteins in castration-resistant prostate cancer. Nature 510:278-82 (2014).
- 2. Flucke U et al. Epithelioid Hemangioendothelioma: clinicopathologic, immunhistochemical, and molecular genetic analysis of 39 cases. Diagn Pathol 9:131 (2014).

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