

# Anti-14-3-3 gamma Antibody [SD20-65]

ET1612-9



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 28 kDa
<b>Clone number:</b>	SD20-65

**Description:** 14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms comprise this family of signaling intermediates, denoted 14-3-3 b, g, e, z, h, q and s. 14-3-3 proteins form dimers that present two binding sites for ligand proteins, thereby bringing together two proteins that may not otherwise associate. These ligands largely share a 14-3-3 consensus binding motif and exhibit serine/threonine phosphorylation. 14-3-3 proteins function in broad regulation of these ligand proteins; by cytoplasmic sequestration, occupation of interaction domains and import/export sequences, prevention of degradation, activation/repression of enzymatic activity, and facilitation of protein modification. Loss of expression contributes to a vast array of pathogenic cellular activities.

**Immunogen:** Synthetic peptide within Human 14-3-3 gamma aa 131-180 / 247.

**Positive control:** 293T cell lysate, K562 cell lysate, A431 cell lysate, Hela cell lysate, K562, human breast cancer tissue, human lung cancer tissue, human ovary cancer tissue.

**Subcellular location:** Cytoplasm.

**Database links:** SwissProt: P61981 Human | P61982 Mouse | P61983 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000-1:2,000
<b>IHC-P</b>	1:200-1:1,000
<b>FC</b>	1:10-1:50

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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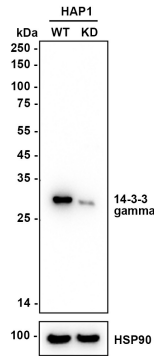
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## Images

**Fig1:** Western blot analysis of 14-3-3 gamma on different lysates with Rabbit anti-14-3-3 gamma antibody (ET1612-9) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate

Lane 2: HAP1-14-3-3 gamma KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 28 kDa

Observed band size: 28 kDa

Exposure time: 10 seconds; ECL: K1801;

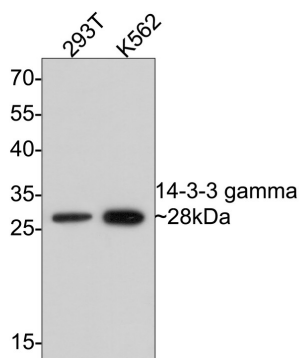
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFD/MTBST for 1 hour at room temperature. The primary antibody (ET1612-9) at 1/2,000 dilution was used in primary antibody dilution (K1803) 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 14-3-3 gamma on different lysates with Rabbit anti-14-3-3 gamma antibody (ET1612-9) at 1/1,000 dilution.

Lane 1: 293T cell lysate

Lane 2: K562 cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 28 kDa

Observed band size: 28 kDa

Exposure time: 2 minutes;

12% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFD/MTBST for 1 hour at room temperature. The primary antibody (ET1612-9) at 1/1,000 dilution was used in 5% NFD/MTBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

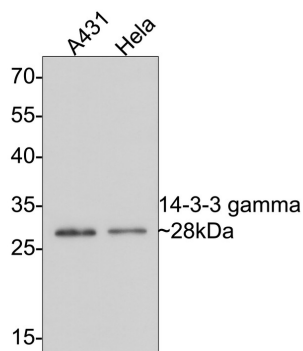
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**Fig3:** Western blot analysis of 14-3-3 gamma on different lysates with Rabbit anti-14-3-3 gamma antibody (ET1612-9) at 1/500 dilution.

Lane 1: A431 cell lysate

Lane 2: HeLa cell lysate

Lysates/proteins at 10 µg/Lane.

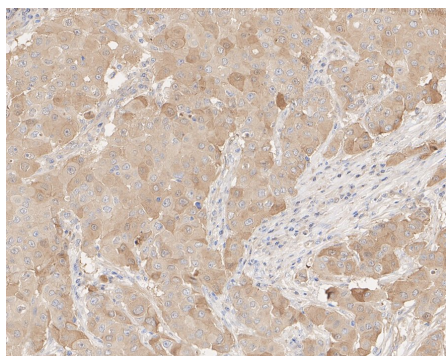
Predicted band size: 28 kDa

Observed band size: 28 kDa

Exposure time: 2 minutes;

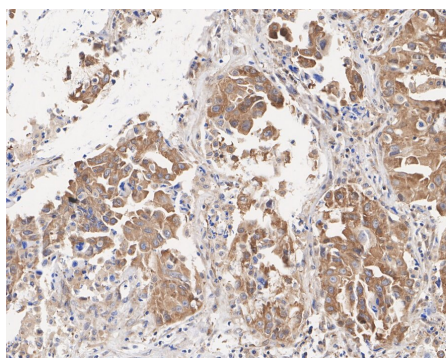
12% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1612-9) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human breast cancer tissue with Rabbit anti-14-3-3 gamma antibody (ET1612-9) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1612-9) 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.



**Fig5:** Immunohistochemical analysis of paraffin-embedded human lung cancer tissue with Rabbit anti-14-3-3 gamma antibody (ET1612-9) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1612-9) 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.

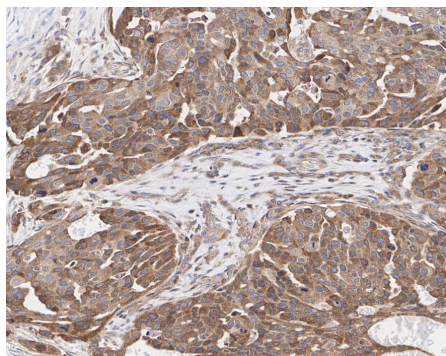
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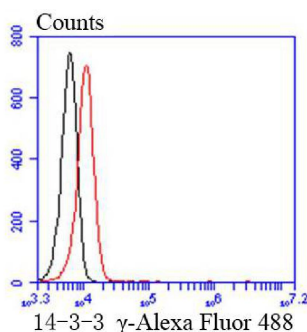
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**Fig6:** Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue with Rabbit anti-14-3-3 gamma antibody (ET1612-9) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1612-9) 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.



**Fig7:** Flow cytometric analysis of 14-3-3 gamma was done on K562 cells. The cells were fixed, permeabilized and stained with the primary antibody (ET1612-9, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

### Background References

1. Scheibner, KA. et al. 2012. MiR-27a functions as a tumor suppressor in acute leukemia by regulating 14-3-3 $\theta$ . PLoS ONE. 7: e50895.
2. Song, Y. et al. 2012. Expression of 14-3-3 $\gamma$  in patients with breast cancer: correlation with clinicopathological features and prognosis. Cancer Epidemiol. 36: 533-536.

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