Anti-KAP1 Antibody [SD081-05]

ET1612-55

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Tissue, IHC-P
Molecular Wt:	Predicted band size: 89 kDa
Clone number:	SD081-05

Description: TIF1β, for transcriptional intermediary factor 1-beta, also designated KAP1(for KRAB-associated protein 1), TF1β and TRIM28 (for tripartif motif-containing 28), is a member of the tripartif motif family characterized by three zinc-binding domains, a RING finger, B-boxes and a coiled-coil domain. Like TIF1α, TIF1β contains both a Cys/His PHD (plant homeodomain) finger and bromodomain that form a cooperative unit required for transcriptional repression. TIF1β mediates transcriptional control by interaction with the Kruppel-associated box (KRAB) repression domain found in many transcription factors and by binding DNA through its zinc finger. The human TIF1β gene maps to human chromosome 19q13.4 and encodes an 835 amino acid nuclear protein.

Immunogen: Synthetic peptide within Human KAP1 aa 301-350 / 835.

Positive control: F9 cell lysate, C6 cell lysate, Human lung tissue lysate, Mouse colon tissue lysate, human kidney tissue, mouse brain tissue, rat kidney tissue.

Subcellular location: Nucleus.

Database links: SwissProt: Q13263 Human | Q62318 Mouse | O08629 Rat

Recommended Dilutions:

WB	1:2,000-1:5,000
IF-Tissue	1:50-1:200
IHC-P	1:3,000

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

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

Purity: Protein A affinity purified.

Images

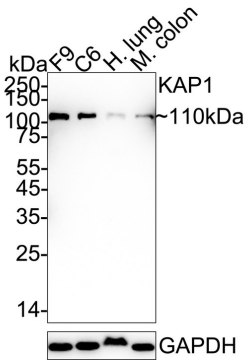

Fig1: Western blot analysis of KAP1 on different lysates with Rabbit anti-KAP1 antibody (ET1612-55) at 1/2,000 dilution.

Lane 1: F9 cell lysate (20 µg/Lane)
Lane 2: C6 cell lysate (20 µg/Lane)
Lane 3: Human lung tissue lysate (40 µg/Lane)
Lane 4: Mouse colon tissue lysate (40 µg/Lane)

Predicted band size: 89 kDa
Observed band size: 110 kDa

Exposure time: 2 minutes; ECL: K1801;

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 (ET1612-55) at 1/2,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

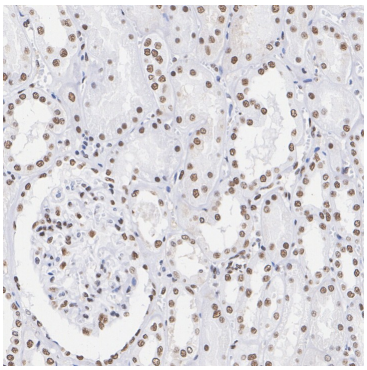

Fig2: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-KAP1 antibody (ET1612-55) at 1/3,000 dilution.

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_2O and PBS, and then probed with the primary antibody (ET1612-55) at 1/3,000 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.

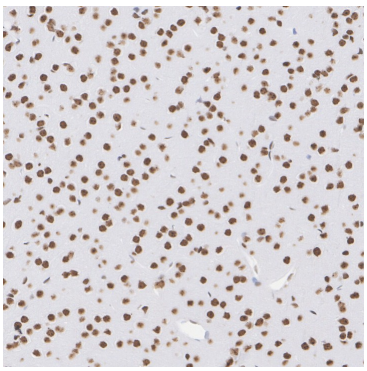

Fig3: Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rabbit anti-KAP1 antibody (ET1612-55) at 1/3,000 dilution.

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_2O and PBS, and then probed with the primary antibody (ET1612-55) at 1/3,000 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.

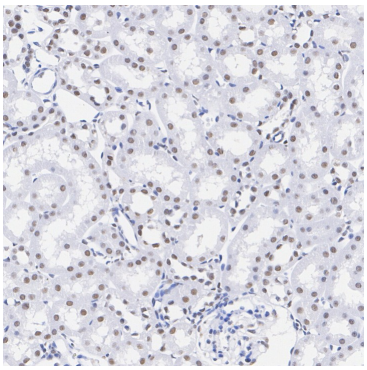

Fig4: Immunohistochemical analysis of paraffin-embedded rat kidney tissue with Rabbit anti-KAP1 antibody (ET1612-55) at 1/3,000 dilution.

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_2O and PBS, and then probed with the primary antibody (ET1612-55) at 1/3,000 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.

Background References

1. Thompson PJ et al. hnRNP K Coordinates Transcriptional Silencing by SETDB1 in Embryonic Stem Cells. PLoS Genet 11:e1004933 (2015).
2. Gjyshi O et al. Activated Nrf2 Interacts with Kaposi's Sarcoma-Associated Herpesvirus Latency Protein LANA-1 and Host Protein KAP1 To Mediate Global Lytic Gene Repression. J Virol 89:7874-92 (2015).