

Datasheet for ABIN7602310
anti-KAP1 antibody (AA 699-835)



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Overview

Quantity:	100 µg
Target:	KAP1 (TRIM28)
Binding Specificity:	AA 699-835
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Anti-KAP1/TRIM28 Antibody Picoband® (monoclonal, 3H2)
Immunogen:	E.coli-derived human KAP1 recombinant protein (Position: A699-P835). Human KAP1 shares 94.9% amino acid (aa) sequence identity with both mouse and rat KAP1.
Clone:	3H2
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-KAP1/TRIM28 Antibody Picoband® (monoclonal, 3H2) (ABIN7602310). Tested in Flow Cytometry, IF, IHC, IHC-F, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our

Product Details

best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: KAP1 (TRIM28)

Alternative Name: TRIM28 ([TRIM28 Products](#))

Background: Synonyms: E3 SUMO protein ligase TRIM28 antibody, E3 SUMO-protein ligase TRIM28 antibody, FLJ29029 antibody, KAP 1 antibody, KAP-1 antibody, KRAB associated protein 1 antibody, KRAB interacting protein 1 antibody, KRAB-associated protein 1 antibody, KRAB-interacting protein 1 antibody, KRIP 1 antibody, KRIP-1 antibody, KRIP1 antibody, Nuclear corepressor KAP 1 antibody, Nuclear corepressor KAP-1 antibody, RING finger protein 96 antibody, RNF96 antibody, TF1B antibody, TIF1 beta antibody, TIF1-beta antibody, TIF1B antibody, TIF1B_HUMAN antibody, Transcription intermediary factor 1 beta antibody, Transcription intermediary factor 1-beta antibody, Trim28 antibody, Tripartite motif containing 28 antibody, tripartite motif containing protein 28 antibody, Tripartite motif-containing protein 28 antibody

Tissue Specificity: Expressed in all tissues tested including spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes.

Background: Tripartite motif-containing 28 (TRIM28), also known as transcriptional intermediary factor 1 β (TIF1 β) and KAP1 (KRAB-associated protein-1), is a protein that in humans is encoded by the TRIM28 gene. The protein encoded by this gene mediates transcriptional control by interaction with the Kruppel-associated box repression domain found in many transcription factors. The protein localizes to the nucleus and is thought to associate with specific chromatin regions. KAP1 is a ubiquitously expressed protein involved in many critical functions including: transcriptional regulation, cellular differentiation and proliferation, DNA damage repair, viral suppression, and apoptosis. Its functionality is dependent upon post-translational modifications. Phosphorylation of KAP1 acts as a deactivator of the protein in many of its mechanisms while sumoylation acts as an activator.

Molecular Weight: 100 kDa

Gene ID: 10155

UniProt: [Q13263](#)

Pathways: [Hedgehog Signaling](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat Immunohistochemistry (Frozen Section), 0.5-1 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Human 1. Capili AD, Schultz DC, RauscherIII FJ, Borden KL (Jan 2001). "Solution structure of the PHD domain from the KAP-1 corepressor: structural determinants for PHD, RING and LIM zinc-binding domains". The EMBO Journal 20 (1-2): 165-77. 2. Iyengar, Sushma, Farnham, Peggy (2011-07-29). "KAP1 Protein: An Enigmatic Master Regulator of the Genome". The Journal of Biological Chemistry 286. 3. Reymond A, Meroni G, Fantozzi A, Merla G, Cairo S, Luzi L, Riganelli D, Zanaria E, Messali S, Cainarca S, Guffanti A, Minucci S, Pelicci PG, Ballabio A (May 2001). "The tripartite motif family identifies cell compartments". The EMBO Journal 20 (9): 2140-51.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.