

Rabbit KAP1 Polyclonal Antibody | anti-KAP1 antibody

KAP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323857	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

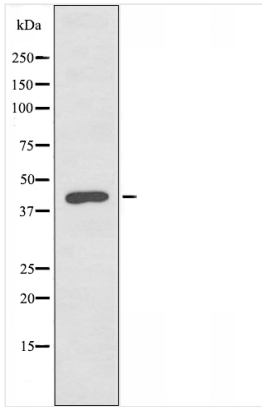
PRODUCT SYNONYMS

KAP1; Polyclonal Antibody; KAP1 Antibody; cAMP dependent protein kinase type I beta regulatory subunit; cAMP-dependent protein kinase type I-beta regulatory subunit; KAP1_HUMAN; PKARI beta; PRKAR 1; PRKAR 1B; PRKAR1; Prkar1b; PRKAR1B protein; Protein kinase cAMP dependent regulatory type I beta; Ribeta; anti-KAP1 antibody

PRODUCT SPECIFICATIONS

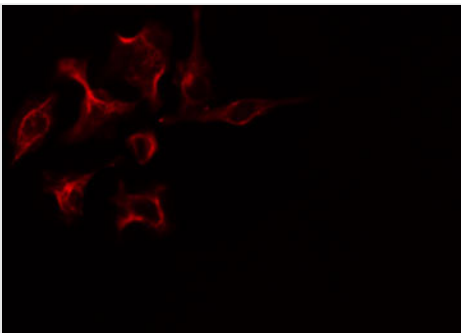
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KAP1 antibody detects endogenous levels of total KAP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	381
Applicable Applications for anti-KAP1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Plasma Membrane
Tissue Specificity	Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from COLO205 cells, using KAP1 antibody.



IF (Immunofluorescence)

AAA323857 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KAP1 antibody	Function: Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells. Subunit Structure: The inactive holoenzyme is composed of two regulatory chains and two catalytic chains. Activation by cAMP releases the two active catalytic monomers and the regulatory dimer. Interacts with PRKX; regulates this cAMP-dependent protein kinase. Interacts with C2orf88/smAKAP; this interaction may target PRKAR1B to the plasma membrane. Post-translational Modifications: The pseudophosphorylation site binds to the substrate-binding region of the catalytic chain, resulting in the inhibition of its activity. Similarity: Belongs to the cAMP-dependent kinase regulatory chain family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	258613969
NCBI GeneID	5575
NCBI Accession #	NP_001158230.1
NCBI GenBank Nucleotide #	NM_001164758.1
UniProt Accession #	P31321; Q8N422
Molecular Weight	Observed: 43 kD Predicted: 44 kDa
NCBI Official Full Name	cAMP-dependent protein kinase type I-beta regulatory subunit
NCBI Official Synonym Full Names	protein kinase cAMP-dependent type I regulatory subunit beta
NCBI Official Symbol	PRKAR1B
NCBI Official Synonym Symbols	PRKAR1
NCBI Protein Information	cAMP-dependent protein kinase type I-beta regulatory subunit
UniProt Protein Name	cAMP-dependent protein kinase type I-beta regulatory subunit
UniProt Gene Name	PRKAR1B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.