For Research Use Only

KAP1 Monoclonal antibody

Catalog Number:66630-1-Ig Featured Product 20 Publications

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Basic Information

Catalog Number:
66630-1-Ig

Size:
150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG7519

GenBank Accession Number:
BC004978

GeneID (NCBI):
10155

UNIPROT ID:
Q13263

Full Name:
tripartite motif-containing 28

Calculated MW:
89 kDa

Observed MW:
100 kDa

Purification Method:
Protein A purification

CloneNo.:
1B9G12

Recommended Dilutions:
WB: 1:20000-1:100000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:800
IF/ICC: 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, IP, CoIP, ChIP

Species Specificity:
human

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HCT 116 cells, HepG2 cells, A549 cells, HEK-293 cells, Caco-2 cells, MOLT-4 cells, TF-1 cells, RT-4 cells

IP : HeLa cells,

IHC : human breast cancer tissue, human colon cancer tissue

IF/ICC : HepG2 cells,

Background Information

KAP1, also named as TRIM28 or RNF96, is a 835 amino acid protein, which contain one RING-type zinc finger, one PHD-type zinc finger, one bromo domain and two B box-type zinc fingers. KAP1 localizes in the nucleus and Belongs to the TRIM/RBCC family. KAP1 is a nuclear corepressor for KRAB domain-containing zinc finger proteins and mediates gene silencing by recruiting CHD3, a subunit of the nucleosome remodeling and deacetylation (NuRD) complex, and SETDB1 to the promoter regions of KRAB target genes. KAP1 is expressed in all tissues tested including spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes. The calcualted molecular weight of KAP1 is 89 kDa, but modified KAP1 is about 100 kDa. (PMID: 18590578)

Notable Publications

Author	Pubmed ID	Journal	Application
Guido A Stoll	36341546	EMBO J	IF
Xiancai Ma	30652970	Elife	WB
Qiuyu Tan	36476351	BMC Pulm Med	WB

Storage

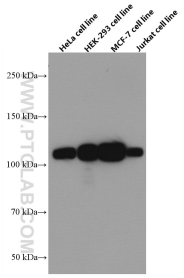
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

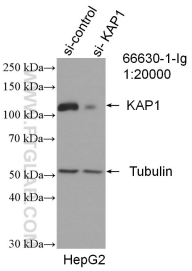
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

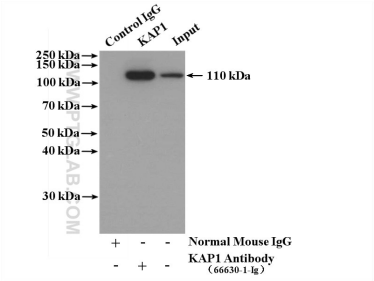
Selected Validation Data



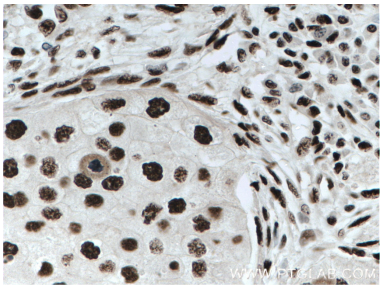
Various lysates were subjected to SDS PAGE followed by western blot with 66630-1-Ig (KAP1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



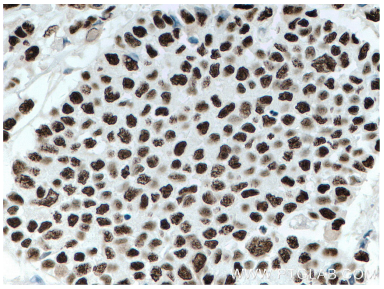
WB result of KAP1 antibody (66630-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-KAP1 transfected HepG2 cells.



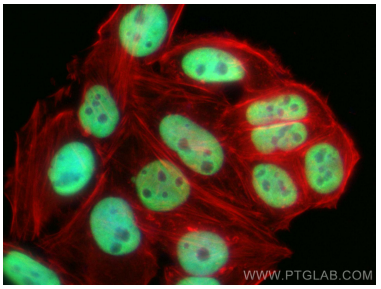
IP result of anti-KAP1 (IP:66630-1-Ig, 5ug; Detection:66630-1-Ig 1:1000) with HeLa cells lysate 4000 ug.



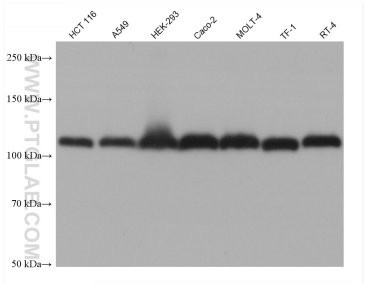
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66630-1-Ig (KAP1 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66630-1-Ig (KAP1 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using KAP1 antibody (66630-1-Ig, Clone: 1B9G12) at dilution of 1:800 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-phalloidin (red).



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