

For Research Use Only

KEAP1 Polyclonal antibody

Catalog Number: 10503-2-AP

Featured Product

726 Publications



Basic Information

Catalog Number:

10503-2-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0779

GenBank Accession Number:

BC002930

GeneID (NCBI):

9817

UNIPROT ID:

Q14145

Full Name:

kelch-like ECH-associated protein 1

Calculated MW:

624 aa, 70 kDa

Observed MW:

55-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig, monkey, chicken, bovine, yellow catfish

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 : HEK-293 cells, HepG2 cells, Jurkat cells, MCF-7 cells, HeLa cells

IP : mouse skeletal muscle tissue,

IHC : human lung cancer tissue, human breast cancer tissue, human skeletal muscle tissue

IF/ICC : U2OS cells, HepG2 cells

Background Information

KEAP1, also named as INRF2, KIAA0132 and KLHL19, is part of a multiprotein complex that contains the CUL3-ROC1 ubiquitin ligase, which can ubiquitinate the N-terminal domain of NRF2[PMID: 20173742]. Two molecules of KEAP1 bind to two distinct sites in the N-terminal region of NRF2, the ETGE and DLG sites, which affect the KEAP1-NRF2 interaction and/or its physiological consequences[PMID: 22215675]. KEAP1 retains NFE2L2/NRF2 in the cytosol. It functions as substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1[PMID: 20427290]. It also retains BPTF in the cytosol. This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human KEAP1.

Notable Publications

Author	Pubmed ID	Journal	Application
Lin-Tao Xu	34601084	J Ethnopharmacol	WB
Zhenmao Jia	36238566	Front Pharmacol	WB
Taiwei Wang	36169181	Oncol Rep	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

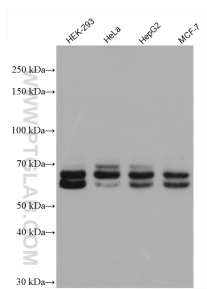
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

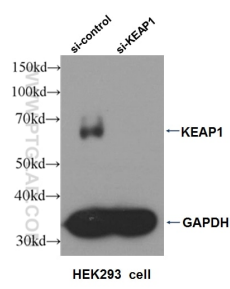
E: proteintech@ptglab.com
W: ptglab.com

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

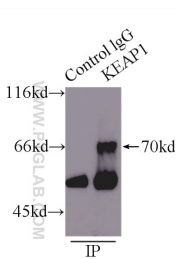
Selected Validation Data



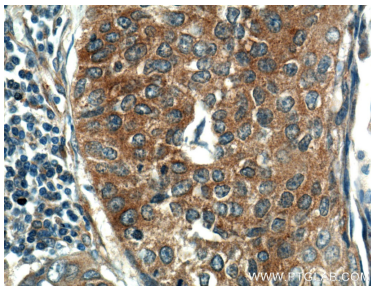
Various lysates were subjected to SDS PAGE followed by western blot with 10503-2-AP (KEAP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



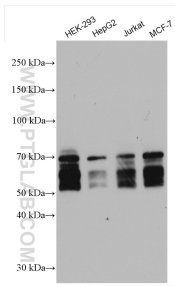
WB result of KEAP1 antibody (10503-2-AP, 1:2000) with si-control and si-KEAP1 transfected HEK293 cell.



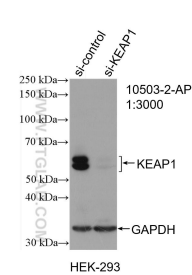
IP result of anti-KEAP1 (IP:10503-2-AP, 5ug; Detection:10503-2-AP 1:600) with mouse skeletal muscle tissue lysate 8000ug.



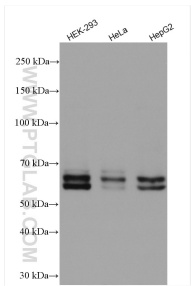
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10503-2-AP (KEAP1 Antibody) at dilution of 1:200 (under 10x lens).



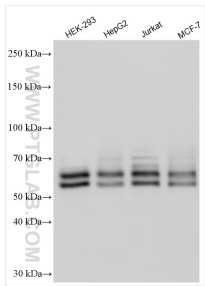
Various lysates were subjected to SDS PAGE followed by western blot with 10503-2-AP (KEAP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



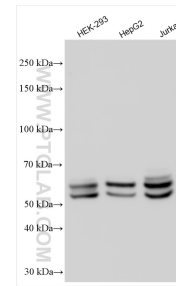
WB result of KEAP1 antibody (10503-2-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-KEAP1 transfected HEK-293 cells.



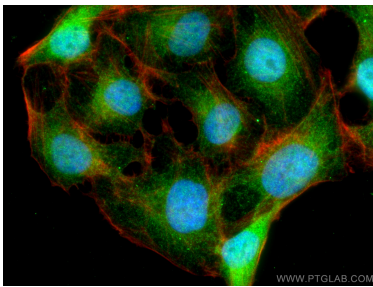
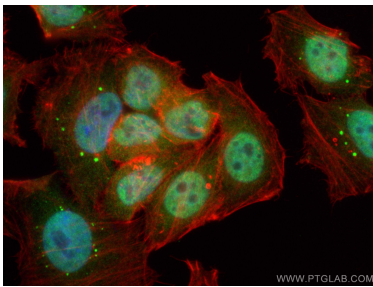
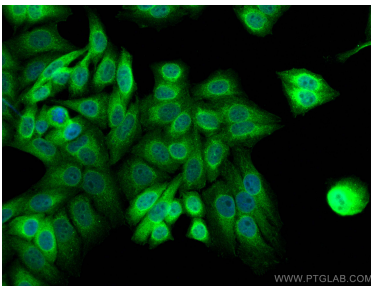
Various lysates were subjected to SDS PAGE followed by western blot with 10503-2-AP (KEAP1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10503-2-AP (KEAP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10503-2-AP (KEAP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using KEAP1 antibody (10503-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using KEAP1 antibody (10503-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).

Immunofluorescent analysis of (4% PFA) fixed U2OS cells using KEAP1 antibody (10503-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).