

For Research Use Only

KEAP1 Recombinant antibody

Catalog Number: 80744-1-RR

Featured Product

15 Publications



Basic Information

Catalog Number:

80744-1-RR

Concentration:

1000 ug/ml

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:

Protein A purification

CloneNo.:

5018

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:500-1:2000

IF/ICC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

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 : Jurkat cells, HEK-293 cells, MCF-7 cells, HeLa cells, K-562 cells, NIH/3T3 cells, RAW 264.7 cells, 4T1 cells, HSC-T6 cells

IHC : human lung cancer tissue,

IF/ICC : HepG2 cells, HeLa 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.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|----------------|-------------|
| Mengting Liu | 39863040 | Clin Immunol | WB |
| Yongjing Guo | 39691306 | J Inflamm Res | IHC,IF |
| Guoping Zhang | 39561496 | Eur J Med Chem | 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

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

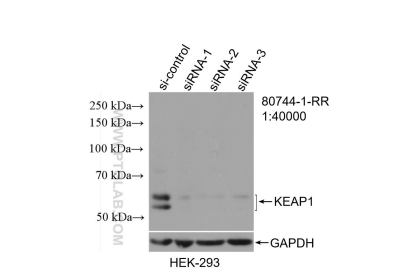
T: 4006900926

E: Proteintech-CN@ptglab.com

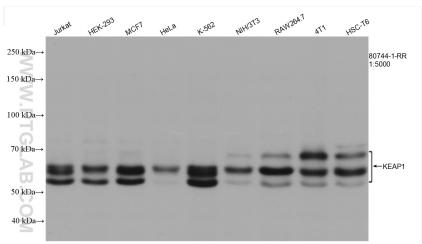
W: ptgcn.com

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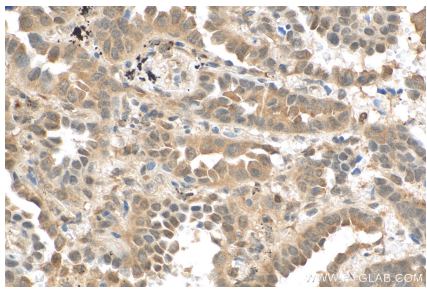
Selected Validation Data



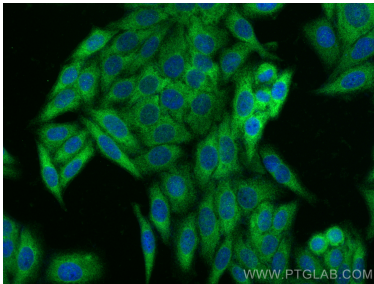
WB result of KEAP1 antibody (80744-1-RR; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-KEAP1 transfected HEK-293 cells.



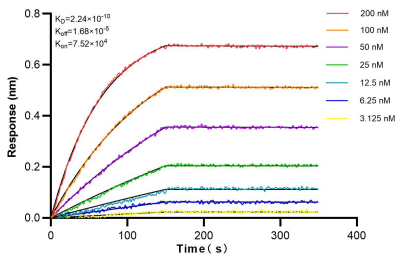
Various lysates were subjected to SDS PAGE followed by western blot with 80744-1-RR (KEAP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 80744-1-RR (KEAP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using KEAP1 antibody (80744-1-RR, Clone: 5O18) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Biolayer interferometry (BLI) kinetic assays of 80744-1-RR against Human KEAP1 were performed. The affinity constant is 0.224 nM.