Keap1 (PT0444R) PT® Rabbit mAb

CatalogNo: YM8283 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,

Applications
- WB,IHC,IF,IP,ELISA

MW
- 70kD (Calculated)

60-70kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	PT0444R

Immunogen Information

Specificity	Endogenous

Target Information

Gene name KEAP1 INRF2 KIAA0132 KLHL19

Protein Name Kelch-like ECH-associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) (Kelch-like protein 19)

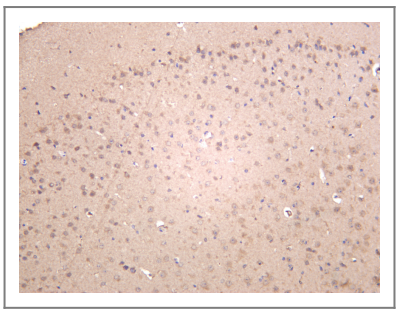
Organism	Gene ID	UniProt ID
Human	9817;	Q14145;
Mouse	50868;	Q9Z2X8;
Rat	117519;	P57790;

Cellular Localization Cytoplasm, Nucleus

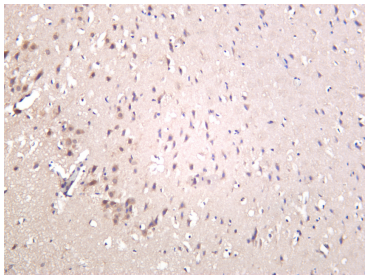
Tissue specificity Broadly expressed, with highest levels in skeletal muscle.

Function Disease:Defects in KEAP1 may be a cause of breast cancer.,Disease:Defects in KEAP1 may be involved in non small cell lung carcinomas (NSCLC) and lung adenocarcinoma.,Domain:The Kelch repeats mediate interaction with NF2L2/NRF2, BPTF and PGAM5.,enzyme regulation:Ubiquitination and subsequent degradation of PGAM5 is inhibited by oxidative stress and sulforaphane.,Function:Retains NFE2L2/NRF2 in the cytosol. Functions as substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1. Targets NFE2L2/NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and the repression of antioxidant response element-mediated detoxifying enzyme gene expression. May also retain BPTF in the cytosol. Targets PGAM5 for ubiquitination and degradation by the proteasome.,PTM:Ubiquitinated and subject to proteasomal degradation.,similarity:Contains 1 BACK (BTB/Kelch associated) domain.,similarity:Contains 1 BTB (POZ) domain.,similarity:Contains 6 Kelch repeats.,subcellular location:Shuttles between cytoplasm and nucleus.,subunit:Homodimer. Interacts with the N-terminal regulatory domain of NF2L2/NRF2. Interacts with BPTF and PTMA. Interacts with CUL3. Part of a complex that contains KEAP1, CUL3 and RBX1. Interacts with PGAM5.,tissue specificity:Broadly expressed, with highest levels in skeletal muscle.,

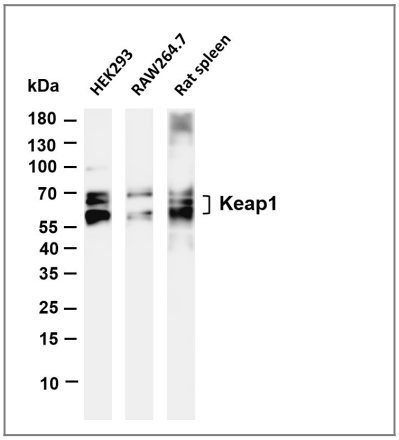
Validation Data



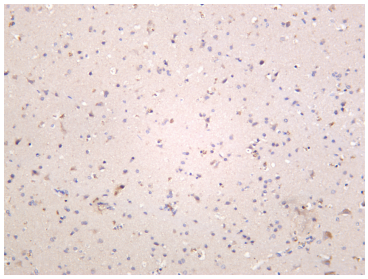
Mouse brain was stained with anti-Keap1 rabbit antibody



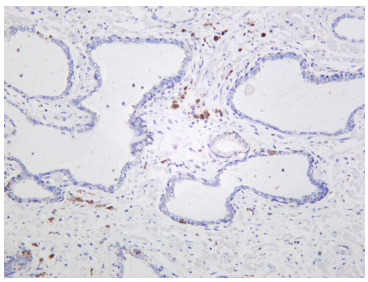
Rat brain was stained with anti-Keap1 rabbit antibody



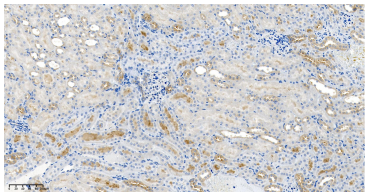
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Keap1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HEK293 Lane 2: RAW264.7 Lane 3: Rat spleen Predicted band size: 70kDa Observed band size: 60-70kDa



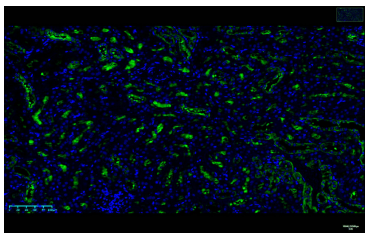
Human brain was stained with anti-Keap1 rabbit antibody



Human prostate was stained with anti-Keap1 rabbit antibody



Mouse kidney was stained with anti-Keap1 Rabbit antibody



Mouse kidney was stained with anti-Keap1 Rabbit antibody

Contact information

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Please scan the QR code to access additional product information:
Keap1 (PT0444R) PT® Rabbit mAb