Keap1 (PTR2556) Mouse mAb

CatalogNo: YM4696 Recombinant

Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat,Dog

Applications
- WB,IF,ELISA

MW
- 70kD (Calculated)

69kD (Observed)

Isotype
- Mouse IgG1/Kappa

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

Recommended Dilution Ratios

WB 1:500-2000
IF 1:100-500
ELISA 1:1000-5000

Basic Information

Clonality	Monoclonal
Clone Number	PTR2556

Immunogen Information

Immunogen	Synthesized peptide derived from human Keap1 AA range: 400-500
Specificity	This antibody detects endogenous levels of Keap1 protein.

Target Information

Gene name KEAP1 INRF2 KIAA0132 KLHL19

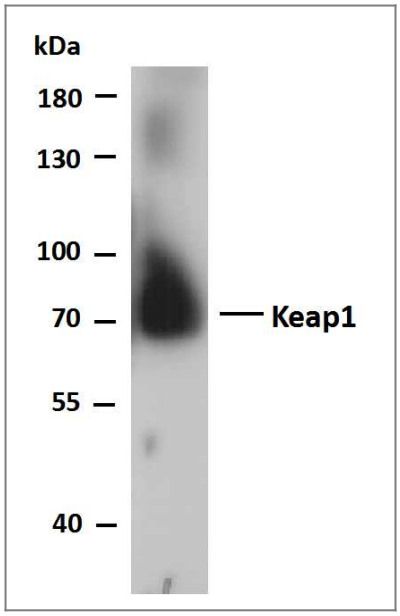
Protein Name Kelch-like ECH-associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) (Kelch-like protein 19)

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

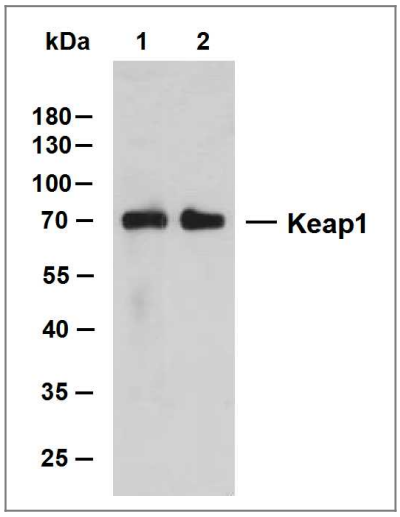
Tissue specificity Broadly expressed, with highest levels in skeletal muscle.

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.,

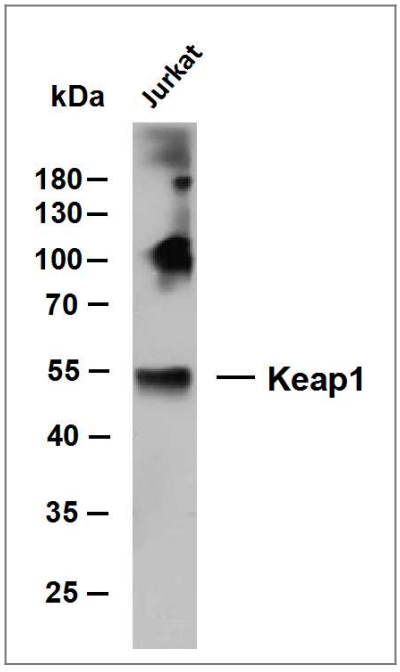
Validation Data



Whole cell lysates of A431 were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Keap1 (PTR2556) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: A431



A431 whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Keap1 (PTR2556)antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: anti-Keap 1 antibody at 1ug/ml Lane 2: anti-Keap 1 antibody at 0.5ug/ml



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Keap1 (PTR2556)antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: Jurkat

Contact information

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Please scan the QR code to access additional product information:
Keap1 (PTR2556) Mouse mAb