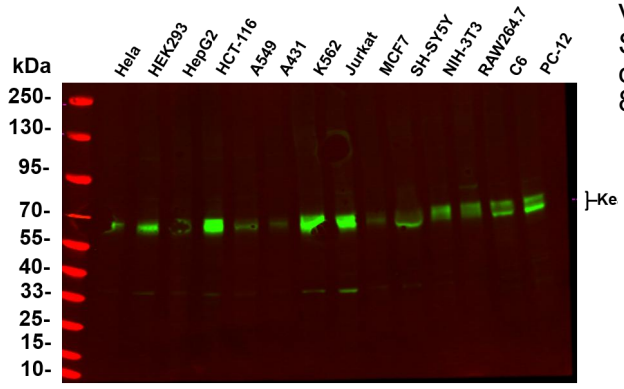
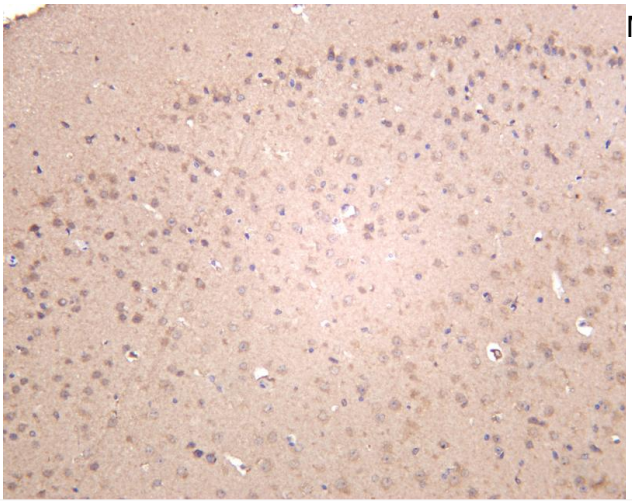
Keap1 Rabbit mAb

Catalog No	YP-rAb-17837
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	KEAP1 INRF2 KIAA0132 KLHL19
Protein Name	Kelch-like ECH-associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) (Kelch-like protein 19)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	KEAP1 ; INRF2 ; KIAA0132 ; KLHL19 ; Kelch-like ECH-associated protein 1 ; Cytosolic inhibitor of Nrf2 ; INrf2 ; Kelch-like protein 19
Observed Band	60-70kD
Calculated Molecular Weight	70kD
Cell Pathway	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

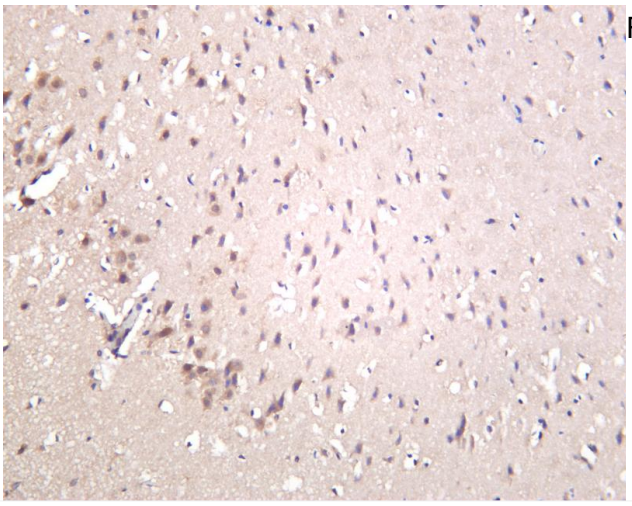
	to proteasomal degradation.,similarity:Contains 1 BACK (BTB/Kelch associated) domain.,similarity:Contains 1 BTB (POZ) domain.,similarity:Contains 6 Kelch repeats.,subcellular location:Shuttles between cytoplasm and nucleus.,subunit:Homodimer. Interacts with the N-terminal regulatory domain of NF2L2/NRF2. 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.,
Background	kelch like ECH associated protein 1(KEAP1) Homo sapiens This gene encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 to the nucleus. This interaction results in the expression of the catalytic subunit of gamma-glutamylcysteine synthetase. Two alternatively spliced transcript variants encoding the same isoform have been found for this gene. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



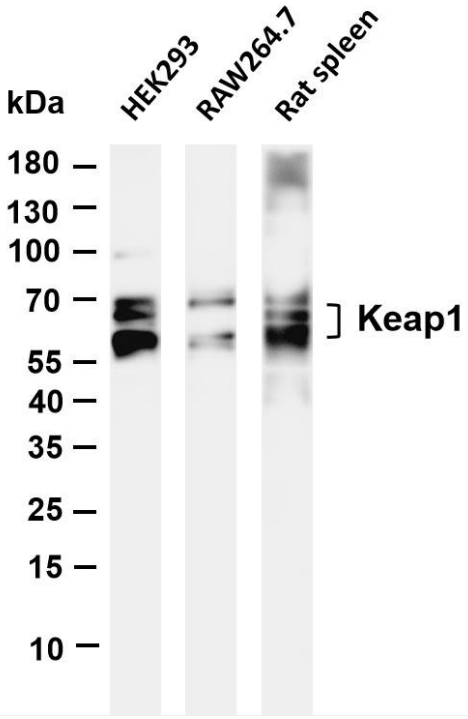
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody



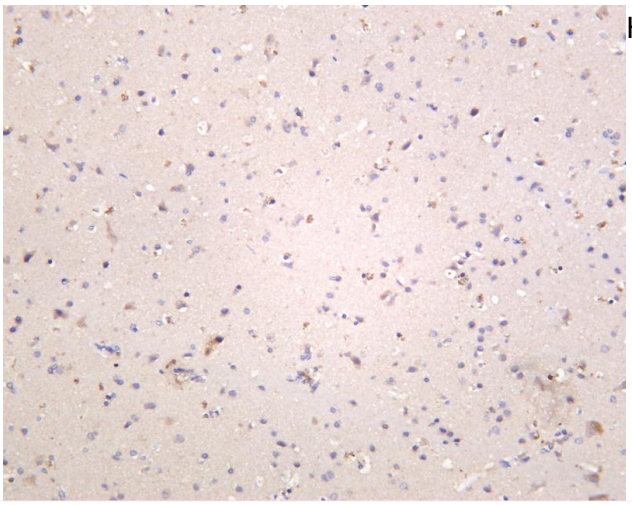
Mouse brain was stained with anti-Keap1 rabbit antibody



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