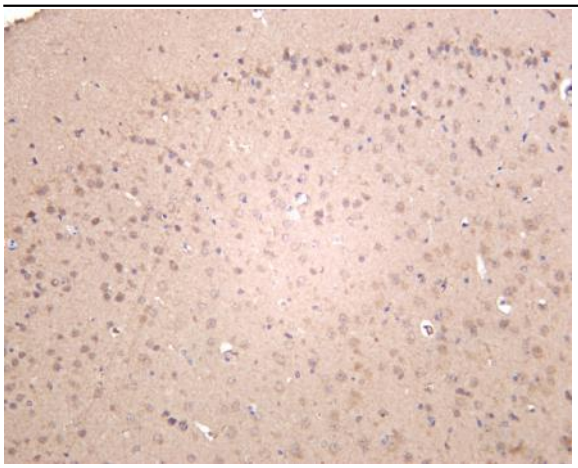
Best Tools for immunology Research

Keap1 (PT0444R) PT® Rabbit mAb

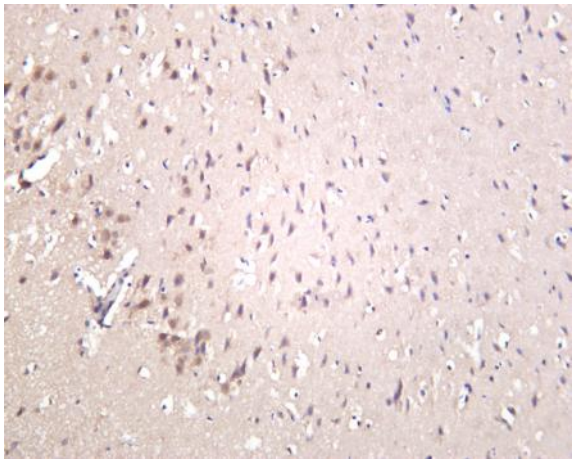
Catalog No :	YM8283
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Keap1
Fields :	>>Ubiquitin mediated proteolysis;>>Parkinson disease;>>Pathways in cancer;>>Chemical carcinogenesis - reactive oxygen species;>>Hepatocellular carcinoma;>>Fluid shear stress and atherosclerosis
Gene Name :	KEAP1 INRF2 KIAA0132 KLHL19
Protein Name :	Kelch-like ECH-associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) (Kelch-like protein 19)
Human Gene Id :	9817
Human Swiss Prot No :	Q14145
Mouse Gene Id :	50868
Mouse Swiss Prot No :	Q9Z2X8
Rat Gene Id :	117519
Rat Swiss Prot No :	P57790
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	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;

Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	70kD
Observed Band :	60-70kD
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],
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 degra
Subcellular Location :	Cytoplasm, Nucleus
Expression :	Broadly expressed, with highest levels in skeletal muscle.

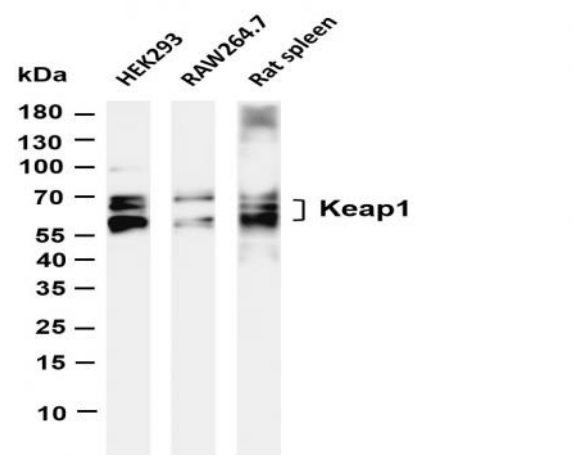
Products Images



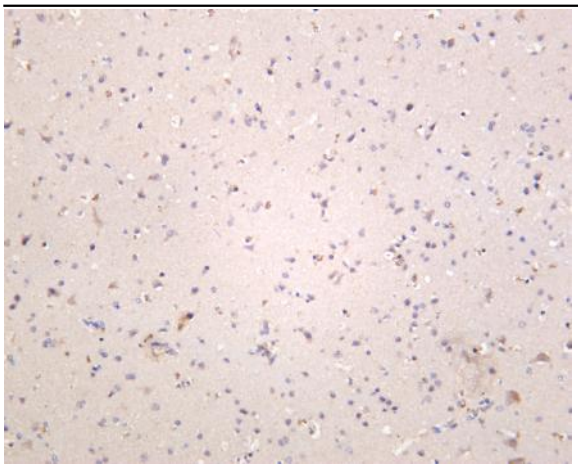
Mouse brain was stained with anti-Keap1 (PT0444R) rabbit antibody



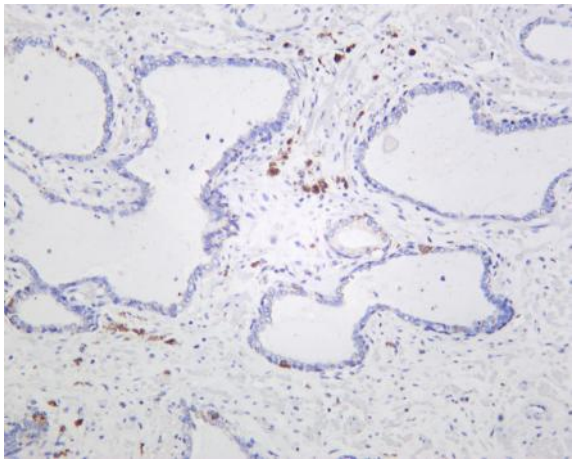
Rat brain was stained with anti-Keap1 (PT0444R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Keap1 (PT0444R) 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 (PT0444R) rabbit antibody



Human prostate was stained with anti-Keap1 (PT0444R) rabbit antibody