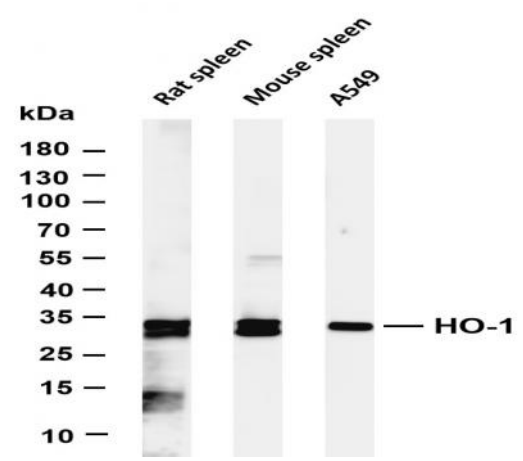
Best Tools for immunology Research

HO-1 (PT0511R) PT® Rabbit mAb

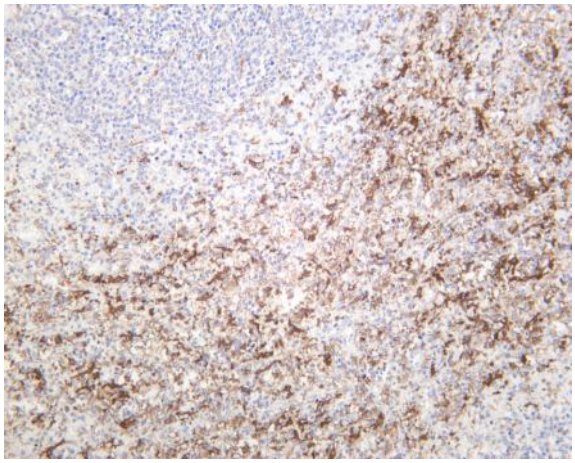
Catalog No :	YM8337
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	HO1
Fields :	>>Porphyrin metabolism;>>Metabolic pathways;>>HIF-1 signaling pathway;>>Ferroptosis;>>Mineral absorption;>>Pathways in cancer;>>MicroRNAs in cancer;>>Chemical carcinogenesis - reactive oxygen species;>>Hepatocellular carcinoma;>>Fluid shear stress and atherosclerosis
Gene Name :	HMOX1 HO HO1
Protein Name :	HO-1
Human Gene Id :	3162
Human Swiss Prot No :	P09601
Mouse Gene Id :	15368
Mouse Swiss Prot No :	P14901
Rat Gene Id :	24451
Rat Swiss Prot No :	P06762
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:2000-1:10000;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 :	33kD
Observed Band :	33kD
Background :	heme oxygenase 1(HMOX1) Homo sapiens Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:Heme + 3 AH(2) + 3 O(2) = biliverdin + Fe(2+) + CO + 3 A + 3 H(2)O.,function:Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestrated and destroyed.,induction:Heme oxygenase 1 activity is highly inducible by its substrate heme and by various non-heme substances such as heavy metals, bromobenzene, endotoxin, oxidizing agents and UVA.,similarity:Belongs to the heme oxygenase family.,
Subcellular Location :	Endoplasmic reticulum membrane
Expression :	Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level).

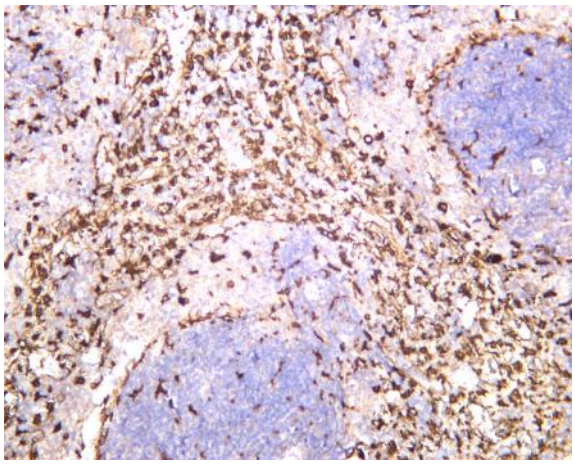
Products Images



arious whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HO-1 (PT0511R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat spleen Lane 2: Mouse spleen Lane 3: A549 Predicted band size: 33kDa Observed band size: 33kDa



Human spleen was stained with anti-HO-1 (PT0511R) rabbit antibody



Rat spleen was stained with anti-HO-1 (PT0511R) rabbit antibody