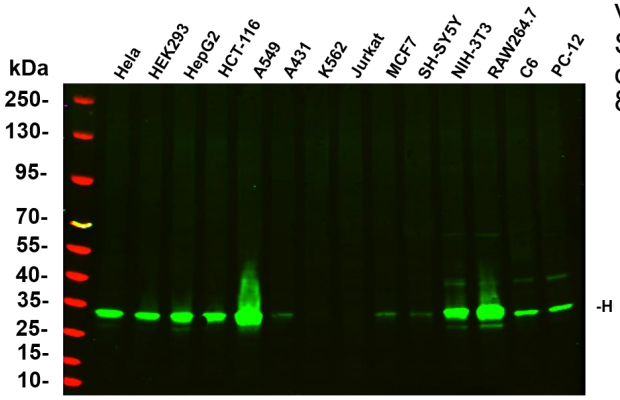
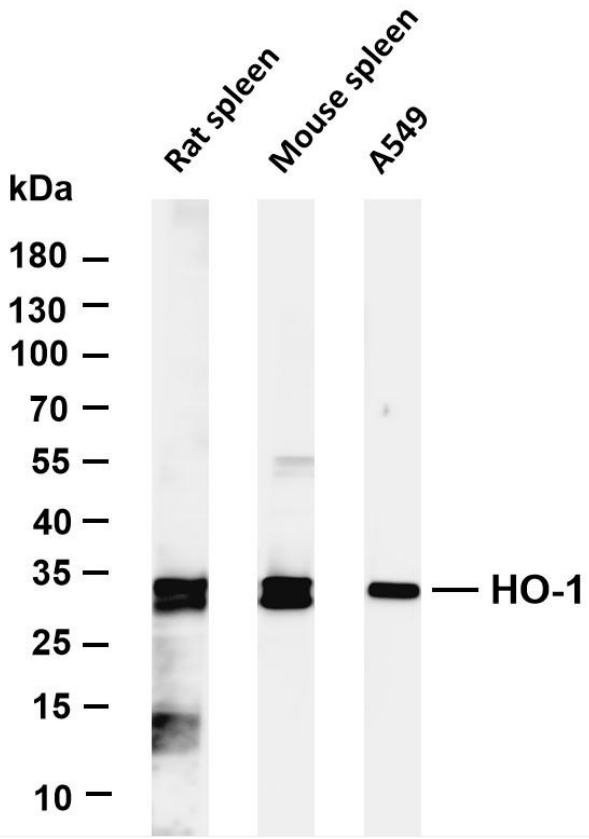
HO-1 Rabbit mAb

Catalog No	YP-rAb-17825
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	HMOX1 HO HO1
Protein Name	HO-1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
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; 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	Heme oxygenase 1 (HO-1) (EC 1.14.99.3)
Observed Band	33kD
Calculated Molecular Weight	33kD
Cell Pathway	Endoplasmic reticulum membrane
Tissue Specificity	Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level).
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.,
Background	heme oxygenase 1(HMOX1) Homo sapiens Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is

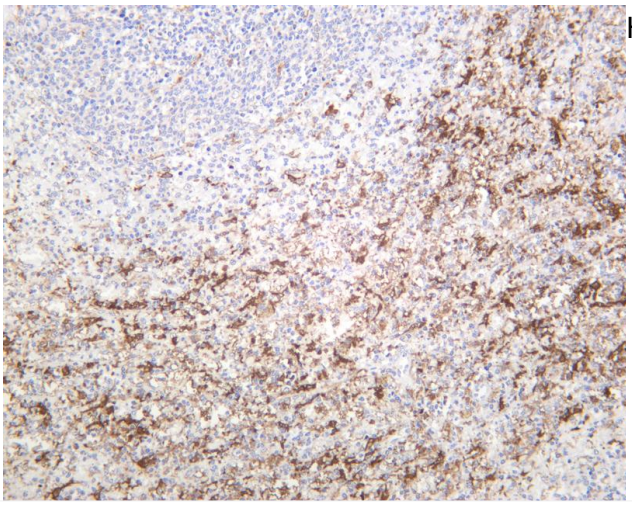
	subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. [provided by RefSeq, Jul 2008],
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.



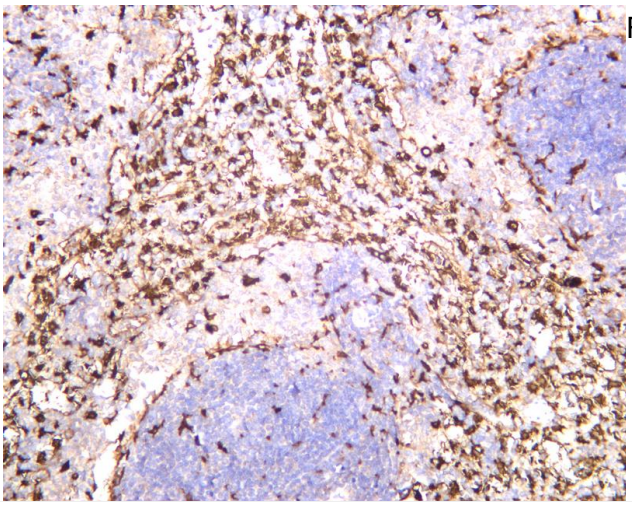
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody



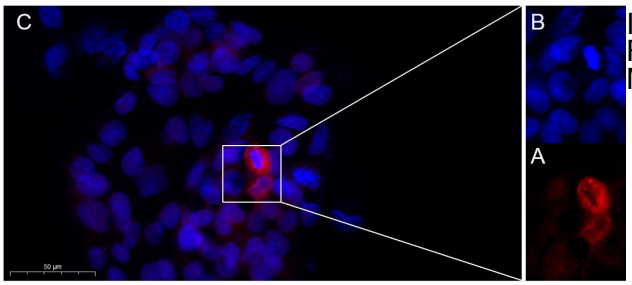
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HO-1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat spleen Lane 2: Mouse spleen Lane 3: A549 Predicted band size: 33kDa Observed band size: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



Human spleen was stained with anti-HO-1 rabbit antibody



Rat spleen was stained with anti-HO-1 rabbit antibody



Immunofluorescence analysis of HepG2. Picture A: HO 1 Rabbit mAb (red). Picture B: DAPI (blue). Picture C: Merge of A+B