Data Sheet (Cat.No.TMAB-00876)

TargetMol

Anti-HMOX1 Antibody (9D115)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 32 kDa. Actual: 27-32 kDa.
Clone:	9D115
Purification:	Protein A purified

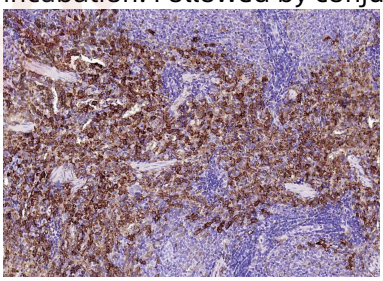
Applications

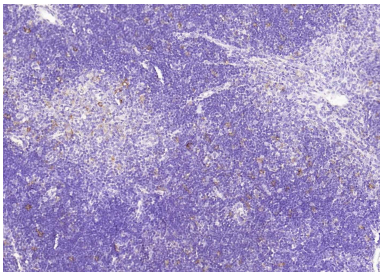
Verified Activity:

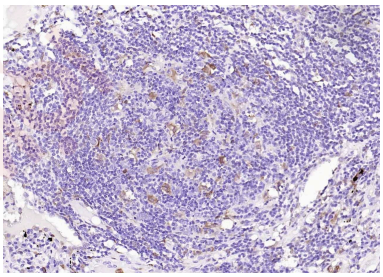
1. Paraformaldehyde-fixed, paraffin embedded (rat spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Heme Oxygenase 1) Monoclonal Antibody, Unconjugated (TMAB-00876) at 1:1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (rat thymus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Heme Oxygenase 1) Monoclonal Antibody, Unconjugated (TMAB-00876) at 1:1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Heme Oxygenase 1) Monoclonal Antibody, Unconjugated (TMAB-00876) at 1:1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Heme Oxygenase 1) Monoclonal Antibody, Unconjugated (TMAB-00876) at 1:1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (human spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Heme Oxygenase 1) Monoclonal Antibody, Unconjugated (TMAB-00876) at 1:1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded (mouse thymus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Heme Oxygenase 1) Monoclonal Antibody, Unconjugated (TMAB-00876) at 1:1000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
7. Sample:
Lane 1: Mouse Liver tissue lysates
Lane 2: Mouse Placenta tissue lysates
Lane 3: Mouse NIH/3T3 cell lysates
Lane 4: Rat Spleen tissue lysates

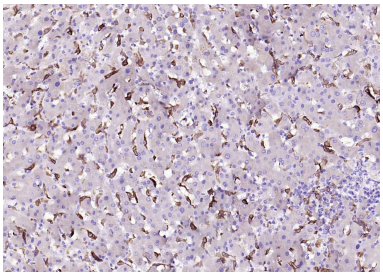
Lane 5: Rat Liver tissue lysates
Lane 6: Human HeLa cell lysates
Lane 7: Human 293T cell lysates
Lane 8: Human HepG2 cell lysates
Primary: Anti-Heme Oxygenase 1 (TMAB-00876) at 1/10000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 32 kDa
Observed band size: 30 kDa

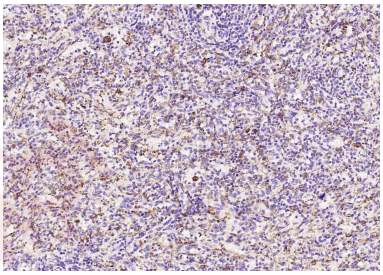
8. 25 μg total protein per Lane of various lysates probed with Heme Oxygenase 1/HMOX1 monoclonal antibody, unconjugated (TMAB-00876) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.

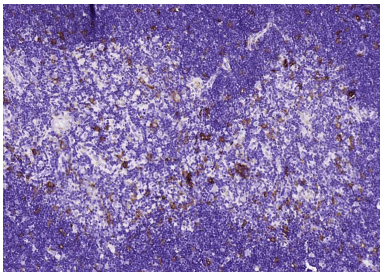


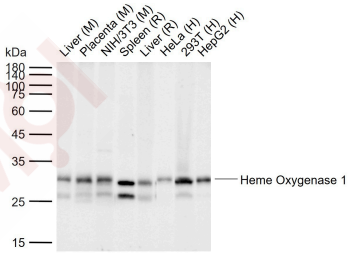


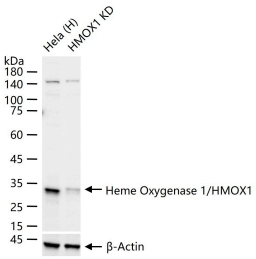












Application:	FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended	FCM=1:50-100; ICC/IF=1:50-200; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:1000-10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Heme Oxygenase 1
Antigen Species:	Human
Gene ID:	3162
Uniprot ID:	P09601
Synonyms:	Heme oxygenase 1;HO-1;HO1;HO;HMOX1
Biology Area:	Response to hypoxia,Inflammatory mediators,Platelets,Endothelium,NFkB pathway,Hypoxia, Cancer,Heart disease,Neurodegenerative disease,Alzheimer's disease,NFkB Pathway

Research Background

The hemeoxygenase-1 calls that the hemoglobin oxidizes to synthesize the enzyme again-1(hemeoxygenase-1, HO-1) is the catalyst enzyme that a kind of hemoglobin declines the solution, under the NADPH and the cell dye P-450 revivification enzymes and the member oxygen functions, the catalyst HO-1 hemoglobin declines the solution as the courage green vegetable, CO and irons, the former revivification has the very strong anti- to oxidize the ability after become the red vegetable of courage , the latter is a kind of important letter to make the member.

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