

Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb®

Catalog No.: A28140PM

Basic Information

Observed MW

30 kDa/35 kDa

Calculated MW

33 kDa

Category

Primary antibody

Applications

WB, IP, IF/ICC, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

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.

Recommended Dilutions

WB 1:5000 - 1:25000

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

IF/ICC 1:200 - 1:2000

IHC-P 1:5000 - 1:20000

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements. For high-
ratio antibody dilutions
(≥1:10000) a sequential
dilution method is
strongly recommended
to ensure measurement
accuracy.

Immunogen Information

Gene ID

3162/15368

Swiss Prot

P09601/P14901

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

HO-1; HSP32; HMOX1D; bK286B10

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

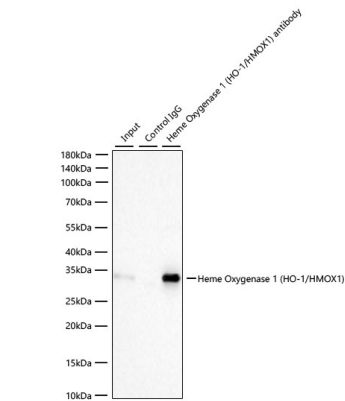
Contact

☎ | 400-999-6126

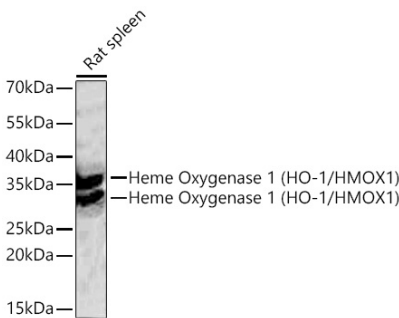
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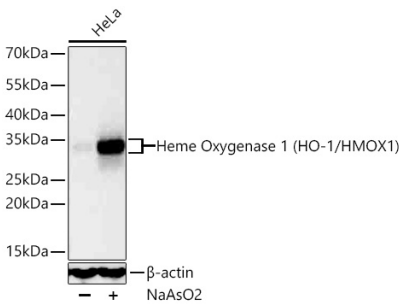
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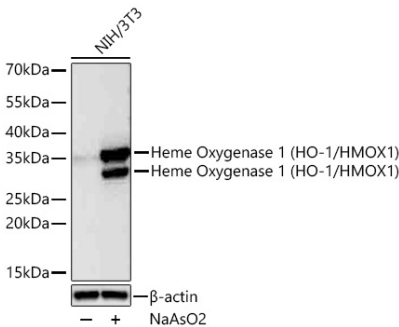
Immunoprecipitation of Heme Oxygenase 1 (HO-1/HMOX1) from 300 µg extracts of HeLa cells was performed using 2 µg of Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at a dilution of 1:5000.



Western blot analysis of lysates from Rat spleen using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at 1:5000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20s.

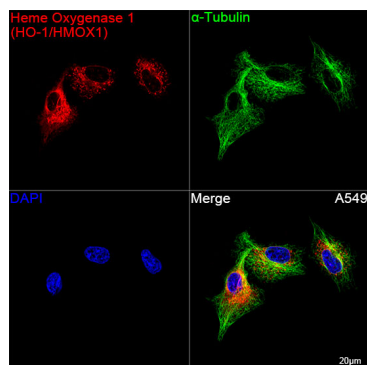


Western blot analysis of lysates from HeLa cells using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at 1:5000 dilution incubated overnight at 4°C. HeLa cells were treated with NaAsO₂ (50 µM) for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

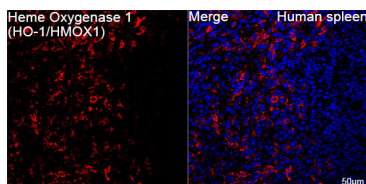


Western blot analysis of lysates from NIH/3T3 cells using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at 1:5000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with NaAsO₂ (50 µM) for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

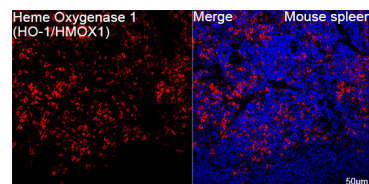
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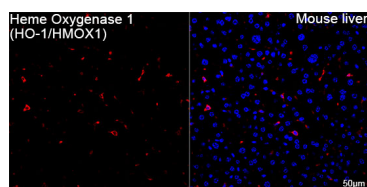
Confocal imaging of A549 cells using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



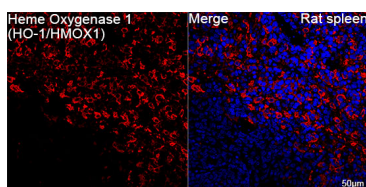
Confocal imaging of paraffin-embedded Human spleen tissue using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



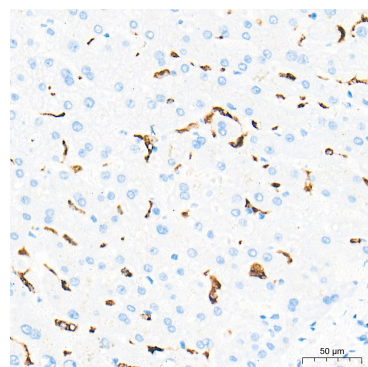
Confocal imaging of paraffin-embedded Mouse spleen tissue using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



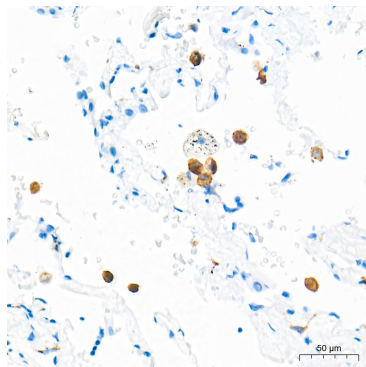
Confocal imaging of paraffin-embedded Mouse liver tissue using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



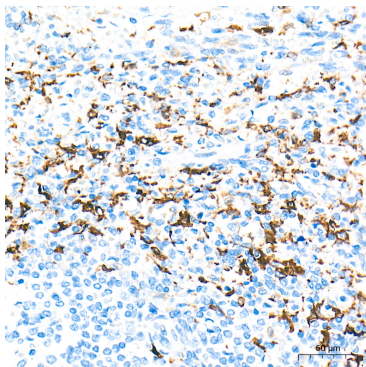
Confocal imaging of paraffin-embedded Rat spleen tissue using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



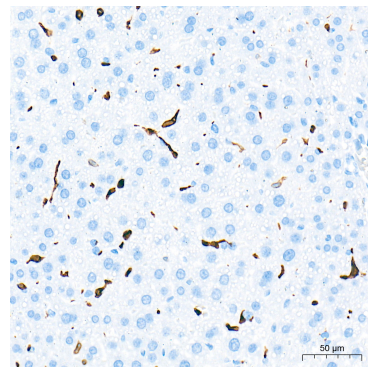
Immunohistochemistry analysis of paraffin-embedded Human liver tissue using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung tissue using Heme



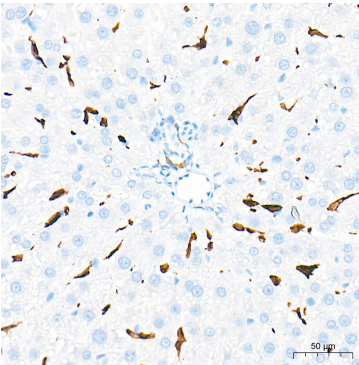
Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using Heme



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Heme

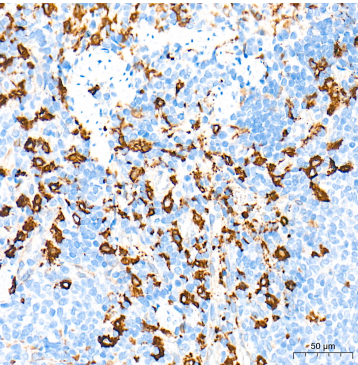
Validation Data

Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Oxygenase 1 (HO-1/HMOX1) Rabbit PolymAb® (A28140PM) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.