

iFluor™ 594 Conjugated Anti-Heme Oxygenase 1 (HO-1) Antibody [SP08-07]

HA720169F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	IF-Tissue
Molecular Wt:	Predicted band size: 33 kDa
Clone number:	SP08-07

Description: Heme oxygenases are microsomal enzymes that cleave heme to produce the antioxidant biliverdin, inorganic iron and carbon monoxide (CO). The activity of Heme Oxygenase 1 (HO-1), also designated HSP 32, is highly inducible in response to numerous stimuli, including heme, heavy metals, hormones and oxidative stress. Heme Oxygenase 2, in contrast, appears to be constitutively expressed in mammalian tissues. Heme Oxygenase 2 is involved in the production of carbon monoxide (CO) in brain, where CO is thought to act as a neurotransmitter. The CO signaling system closely parallels the signaling pathway involving nitric oxide, and regulation of the two systems is closely linked. Heme Oxygenase 3 is found in the spleen, liver, thymus, prostate, heart, kidney, brain and testis. A poor heme catalyst, Heme Oxygenase 3 has two heme regulatory motifs that may be involved in heme binding.

Conjugate: iFluor™ 594, Ex: 588nm; Em: 604nm.

Immunogen: Synthetic peptide within Human HO-1 aa 227-276 / 288.

Positive control: Human spleen tissue.

Subcellular location: Microsome, Endoplasmic reticulum membrane.

Database links: SwissProt: P09601 Human

Recommended Dilutions:

IF-Tissue 1:50

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

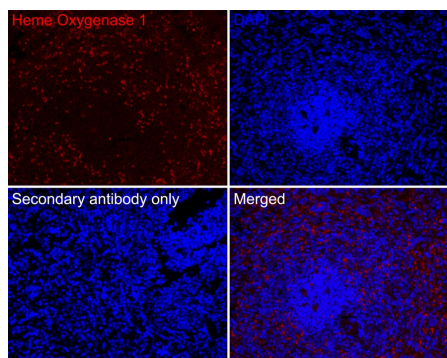


Fig1: Immunofluorescence analysis of paraffin-embedded human spleen tissue labeling Heme Oxygenase 1 (HO-1) (HA720169F).

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibody Heme Oxygenase 1 (HO-1) (HA720169F, iFluor™ 594) at 1/50 dilution overnight at 4 °C, washed with PBS. 33258 was used as nuclear counterstain.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. He C et al. Vasoprotective effect of PDGF-CC mediated by HMOX1 rescues retinal degeneration. Proc Natl Acad Sci U S A 111:14806-11 (2014).
2. Maruyama A et al. Non-coding RNA derived from the region adjacent to the human HO-1 E2 enhancer selectively regulates HO-1 gene induction by modulating Pol II binding. Nucleic Acids Res 42:13599-614 (2014).

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