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Product datasheet for AP00140PU-N

Heme Oxygenase 1 (HMOX1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	**Western Blot:** 0.5-2 µg/ml. *Recommended Positive Control:* Jurkat Cell Lysate. **Immunoprecipitation:** 10-20 µg/ml. **Immunohistochemistry:** 10-20 µg/ml.
Reactivity:	Hamster, Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide surrounding amino acid near the N-terminus of Human HO-1
Specificity:	The antibody recognizes ~32 kDa Heme-Oxygenase-1.
Formulation:	PBS State: Aff - Purified State: Liquid purfied Ig fraction Stabilizer: 0.01% Thimerosal Preservative: 0.5% BSA, 30% Glycerol
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C or for long term storage (in aliquots) at -70°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	heme oxygenase 1
Database Link:	Entrez Gene 3162 Human P09601

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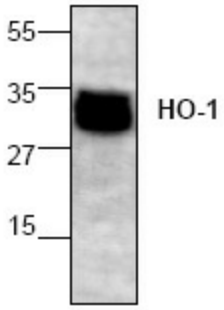
Background: Heme oxygenase-1 (HO-1) or HSP32 is the inducible isoform of heme oxygenase which catalyzes the NADPH, O2 and cytochrome P450 reductase dependent oxidation of heme to carbon monoxide, iron and biliverdin that is immediately reduced to bilirubin. To date, three heme oxygenase isoforms HO-1, HO-2 and HO-3 have been identified. HO-1, also known as Hsp32, a major heat shock/stress response protein, is ubiquitous and its mRNA as well as its activity can be increased several-fold by heme, other metalloporphyrins, transition metals and stimuli that induce cellular stress. The 5'-untranslated region (UTR) of HO-1 has several consensus regulatory elements that include sites for activator protein 1 (AP-1), metal responsive element (MRE), oncogene c-myc/max heterodimer binding site (Myc/Max), antioxidant response element (ARE) and GC box binding (Sp1). HO-1 expression has been shown to increase in benign postatic hyperplasia (BPH) and malignant prostate tissue suggesting a role for this stress protein in the pathogenesis of BPH and prostate cancer.

Synonyms: HO-1, HO, HO1

Product images:



Western blot analysis of HO-1 expression in Jurkat cell lysate using HO-1 antibody.