

Human HO-1/HMOX1 PicoKine ELISA Kit | HMOX1 elisa kit

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CATALOG #
AAA46207

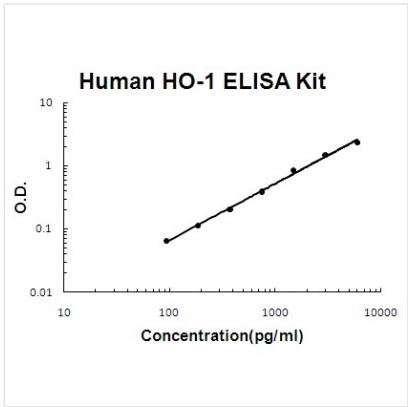
REACTIVITY
Human

PRODUCT SYNONYMS

HO-1/HMOX1 PicoKine; Human HO-1/HMOX1 PicoKine ELISA Kit; Heme oxygenase 1; 32 kD; bK286B10; D8Wsu38e; heat shock protein 32 kD; heat shock protein 32kD; Heat shock protein; Heme oxygenase (decycling) 1; Hemox; HMOX 1; Hmox; HMOX1; HMOX1_HUMAN; HO 1; HO; HO-1; HO1; Hsp32; heme oxygenase 1; HMOX1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human HO-1
Sequence Length	288
Assay Range	93.7pg/ml-6000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human HO-1 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	E Coli, M1-M288
Assay Procedure Step 1	Aliquot 0.1ml per well of the 6000pg/ml, 3000pg/ml, 1500pg/ml, 750pg/ml, 375pg/ml, 187.5pg/ml, 93.7pg/ml human HO-1 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human HO-1 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 527 2085 3561 686 2664 3724 Standard deviation 19 91.74 185.2 31.6 151.8 242.1 CV(%) 3.6 4.4 5.2 4.6 5.7 6.5
Sample Data	Concentration(pg/ml) 0 93.7 187.5 375 750 1500 3000 6000 O.D. 0.020 0.063 0.111 0.201 0.383 0.845 1.465 2.276
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human HO-1/HMOX1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for HMOX1 elisa kit	Principle of the assay: Human HO-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for HO-1 has been precoated onto 96-well plates. Standards(E Coli, M1-M288) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for HO-1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human HO-1 amount of sample captured in plate. Background: HMOX1 (heme oxygenase (decycling) 1) is a human gene that encodes for the enzyme heme oxygenase 1. It is localized to chromosome 22. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504437
NCBI GeneID	3162
NCBI Accession #	NP_002124.1
NCBI GenBank Nucleotide #	NM_002133.2
UniProt Accession #	P09601
Molecular Weight	32,819 Da
NCBI Official Full Name	heme oxygenase 1
NCBI Official Synonym Full Names	heme oxygenase 1
NCBI Official Symbol	HMOX1
NCBI Official Synonym Symbols	HO-1; HSP32; HMOX1D; bK286B10
NCBI Protein Information	heme oxygenase 1
UniProt Protein Name	Heme oxygenase 1
UniProt Gene Name	HMOX1

UniProt Synonym Gene Names	HO; HO1; HO-1
UniProt Entry Name	HMOX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/ho-1-hmox1-picokine/46207>