

HO-1 protein

Catalog No :	YD0037
Reactivity :	Human
Applications :	WB;SDS-PAGE
Gene Name :	HMOX1 HO HO1
Protein Name :	HO-1 protein
Sequence :	Amino acid: 175-266, with his-MBP tag.
Human Gene Id :	3162
Human Swiss Prot No :	P09601
Mouse Swiss Prot No :	P14901
Formulation :	Liquid in PBS
Source :	E.coli
Dilution :	WB 1:500-2000
Concentration :	SDS-PAGE >90%
Storage Stability :	-20 °C/6 month,-80 °C for long storage
Background :	<p>catalytic activity:Heme + 3 AH(2) + 3 O(2) = biliverdin + Fe(2+) + CO + 3 A + 3 H(2)O.,function:Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestered and destroyed.,induction:Heme oxygenase 1 activity is highly inducible by its substrate heme and by various non-heme substances such as heavy metals, bromobenzene, endotoxin, oxidizing agents and UVA.,similarity:Belongs to the heme oxygenase family.,</p>

response to reactive oxygen species, angiogenesis, blood vessel

Function : development, response to hypoxia, regulation of cytokine production, negative regulation of cytokine production, endothelial cell proliferation, vasculature development, healing during inflammatory response, negative regulation of immune system process, regulation of leukocyte migration, negative regulation of leukocyte migration, regulation of leukocyte activation, negative regulation of leukocyte activation, regulation of immune effector process, negative regulation of immune effector process, regulation of production of molecular mediator of immune response, negative regulation of production of molecular mediator of immune response, regulation of leukocyte mediated immunity, regulation of cytokine production during immune response, negative regulation of cytokine production during immune response, regulation of myeloid leu

Subcellular Location : Endoplasmic reticulum membrane ; Single-pass type IV membrane protein ; Cytoplasmic side .

Expression : Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level).

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