

Datasheet for ABIN6699943
HMOX1 Protein (GST tag)



[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	HMOX1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HMOX1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	HO1 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human HO1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Purity:	>95%

Target Details

Target:	HMOX1
Alternative Name:	HMOX1 (HMOX1 Products)
Background:	Synonyms: Heme Oxygenase (Decycling) 1, HMOX1, HSP32, bK286B10 Background: HO1 (Heme oxygenase 1) catalyzes the oxidative cleavage of heme to biliverdin and is one of the main genes controlling heme synthesis and catabolism. HO1 plays a

Target Details

protective role in various disorders and can ameliorate experimental MN via multiple pathways, including anti-oxidative and immunomodulatory effects (1). Exposure of primary hepatocytes to carbon monoxide and nitric oxide results in dramatic induction of HO1 in dose- and time-dependent manner and this induction is blocked by MAP kinase inhibitors (MAPKs) but not by inhibitors of PI3 kinase pathway (2). HO1 Protein is ideal for investigators involved in Signaling Proteins, Cell Stress & Chaperone Proteins, Cancer, Cardiovascular Disease, Cellular Stress, Inflammation, and Neurobiology research.

NCBI Accession: [NM_002133](#)

Pathways: [Transition Metal Ion Homeostasis](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: HO1 Protein is suitable for use in Western Blot. Expect a band approximately ~56 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: HO1 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiry Date: 12 months