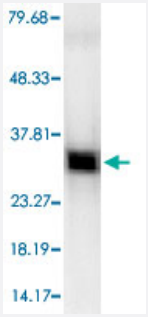
HMOX1 monoclonal antibody, clone 1F12-A6

Catalog # MAB6628 Size 100 ug

Applications



Western Blot (Recombinant protein)

Western blot analysis from recombinant HMOX1 protein with HMOX1 monoclonal antibody, clone 1F12-A6 (Cat # MAB6628).

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of HMOX1.
Immunogen	A synthetic peptide corresponding to amino acids 1-30 of human HMOX1.
Host	Mouse
Reactivity	Bovine, Human, Mouse
Specificity	Detects a 32KDa protein, corresponding to the molecular mass of HO-1 on SDS Page immunoblots. Does not cross-react with HO-2
Form	Liquid
Isotype	IgG1, kappa
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Immunocytochemistry
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Recombinant protein)

  Western blot analysis from recombinant HMOX1 protein with HMOX1 monoclonal antibody, clone 1F12-A6 (Cat # MAB6628).

Gene Info — HMOX1

Entrez GeneID	3162
Gene Name	HMOX1
Gene Alias	HO-1, HSP32, bK286B10
Gene Description	heme oxygenase (decycling) 1
Omim ID	141250
Gene Ontology	Hyperlink
Gene Summary	Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, whic h is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative n eurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonhe me substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a c onstitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. [provi ded by RefSeq
Other Designations	OTTHUMP00000028925|heme oxygenase (decyclizing) 1

Publication Reference

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- Reduced expression of heme oxygenase-1 in patients with coronary atherosclerosis.

  Brydun A, Watari Y, Yamamoto Y, Okuhara K, Teragawa H, Kono F, Chayama K, Oshima T, Ozono R.

  Hypertension Research 2007 Apr; 30(4):341.

  Application: WB-Ce, Human, Human PBMCs

- Absence of heme oxygenase-1 exacerbates atherosclerotic lesion formation and vascular remodeling.

  Yet SF, Layne MD, Liu X, Chen YH, Ith B, Sibinga NE, Perrella MA.

  FASEB Journal 2003 Sep; 17(12):1759.

- Oxidative stress causes enhanced endothelial cell injury in human heme oxygenase-1 deficiency.

  Yachie A, Niida Y, Wada T, Igarashi N, Kaneda H, Toma T, Ohta K, Kasahara Y, Koizumi S.

  The Journal of Clinical Investigation 1999 Jan; 103(1):129.

Pathway

- Porphyrin and chlorophyll metabolism

Disease

- Abortion
- Adenocarcinoma
- Airway Remodeling
- alpha 1-Antitrypsin Deficiency
- Alpha-1-antitrypsin deficiency
- Alzheimer disease
- Aortic Aneurysm
- Arterial Occlusive Diseases
- Arteriosclerosis
- Arthritis
- Asthma

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- Atherosclerosis
- Brain Diseases
- Breast cancer
- Breast Neoplasms
- Cadaver
- Carcinoma
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cerebrovascular Accident
- Chronic Disease
- Cognition
- Colitis
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Crohn Disease
- Delayed Graft Function
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Disease Progression
- Disease Susceptibility
- Dyslipidemias
- Edema

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- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Glomerulonephritis
- Hemochromatosis
- Hereditary hemochromatosis
- Hypertension
- Inflammation
- Inflammatory Bowel Diseases
- Intracranial Aneurysm
- Iron Metabolism Disorders
- Jaundice
- Kidney Diseases
- Kidney Failure
- Liver Cirrhosis
- Lung Diseases
- Lung Neoplasms
- Lymphatic Metastasis
- Malaria
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Microsatellite Instability
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Myocardial Infarction

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- Myocardial Ischemia
- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Osteoporosis
- Parkinson disease
- Peripheral Vascular Diseases
- Pneumonia
- Polycystic kidney disease
- Polycystic Kidney Diseases
- Postoperative Complications
- Pulmonary Disease
- Pulmonary Emphysema
- Recurrence
- Renal Insufficiency
- Respiratory Distress Syndrome
- Severe Acute Respiratory Syndrome
- Skin Neoplasms
- Stomach Neoplasms
- Stroke
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Werner syndrome

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