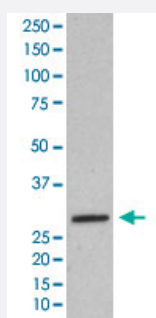


# HMOX1 monoclonal antibody, clone AEG-8

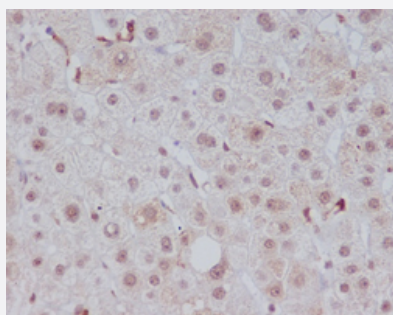
Catalog # MAB20134      Size 100 uL

## Applications



### Western Blot (Tissue lysate)

Western Blot analysis of mouse spleen tissue lysate with HMOX1 monoclonal antibody, clone AEG-8 (Cat # MAB20134).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human liver with HMOX1 monoclonal antibody, clone AEG-8 (Cat # MAB20134).

## Specification

|                             |                                                                             |
|-----------------------------|-----------------------------------------------------------------------------|
| <b>Product Description</b>  | Rabbit monoclonal antibody raised against synthetic peptide of human HMOX1. |
| <b>Immunogen</b>            | A synthetic peptide corresponding to human HMOX1.                           |
| <b>Host</b>                 | Rabbit                                                                      |
| <b>Theoretical MW (kDa)</b> | 32.819                                                                      |
| <b>Reactivity</b>           | Human                                                                       |
| <b>Form</b>                 | Liquid                                                                      |
| <b>Purification</b>         | Affinity purification                                                       |

|                     |                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isotype             | IgG                                                                                                                                                                                                                                           |
| Recommend Usage     | Flow Cytometry (1:50)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200)<br>Immunoprecipitation (1:50)<br>Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).                                                                                                                                                                               |
| Storage Instruction | Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.                                                         |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                                        |

## Applications

- Western Blot (Tissue lysate)

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- Immunoprecipitation

- Flow Cytometry

## Gene Info — HMOX1

|                    |                              |
|--------------------|------------------------------|
| Entrez GeneID      | <a href="#">3162</a>         |
| Protein Accession# | <a href="#">P09601</a>       |
| Gene Name          | HMOX1                        |
| Gene Alias         | HO-1, HSP32, bK286B10        |
| Gene Description   | heme oxygenase (decycling) 1 |
| Omim ID            | <a href="#">141250</a>       |
| Gene Ontology      | <a href="#">Hyperlink</a>    |

**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

OTTHUMP00000028925|heme oxygenase (decyclizing) 1

**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](#)
- [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](#)
- [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](#)
- [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](#)