

## Rabbit HO-2 Polyclonal Antibody | anti-HO-2 antibody

HO-2 polyclonal antibody

| CATALOG # | HOST   | REACTIVITY                                   | APPLICATIONS                                                                                            |
|-----------|--------|----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| AAA77026  | Rabbit | Human, Mouse, Rat, Dog, Pig, Monkey, Hamster | Western Blot, Immunoprecipitation, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA |

### PRODUCT SYNONYMS

HO-2; Polyclonal Antibody; HO-2 polyclonal antibody; HMOX2; Hsp32; Heat shock protein 32; Heme oxygenase 2; pAb; anti-HO-2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                             |
| Reactivity                                     | Human, Mouse, Rat, Dog, Pig, Monkey, Hamster                                                                                       |
| Clonality                                      | Polyclonal                                                                                                                         |
| Specificity                                    | Recognizes human, mouse, rat, dog, hamster, monkey and pig HO-2. Detects a band of ~36kDa by Western blot.                         |
| Purity/Purification                            | Protein A affinity purified.                                                                                                       |
| Form/Format                                    | Liquid. In PBS containing 50% glycerol and 0.09% sodium azide.                                                                     |
| Sequence Length                                | 316                                                                                                                                |
| Applicable Applications for anti-HO-2 antibody | WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA |
| Immunogen                                      | Synthetic peptide corresponding to the sequence near the N-terminus of human HO-2.                                                 |
| Preparation and Storage                        | Long Term: -20 degree C<br>Avoid freeze/thaw cycles.                                                                               |

### IMAGES



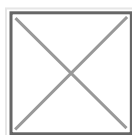
#### WB (Western Blot)

Western blot analysis of HO-2, pAb: Lane 1: MW marker, Lane 2: HO-2 Recombinant Human Protein, Lane 3: Human Liver Microsome Extract, Lane 4: Mouse Liver Microsome Extract, Lane 5: Rat Liver Microsome Extract, Lane 6: Dog Liver Microsome Extract.



#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of human breast cancer tissue with HO-2 pAb.



#### IF (Immunofluorescence)

Immunofluorescent analysis (confocal) staining of MCF-7 cells using HO-2 pAb (green); nuclei are stained in blue pseudocolor using DRAQ5.

## ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-HO-2 antibody | Heme Oxygenase-1 (HO-1) also known as Hsp32, is the inducible isoform of heme oxygenase that catalyzes the NADPH, oxygen, and cytochrome P450 reductase dependent oxidation of heme to carbon monoxide, ferrous iron and biliverdin which is rapidly reduced to bilirubin. These products of the HO reaction have important physiological effects: carbon monoxide is a potent vasodilator and has been implicated to be a physiological regulator of cGMP and vascular tone; biliverdin and its product bilirubin are potent antioxidants; "free" iron increases oxidative stress and regulates the expression of many mRNAs (e.g., DCT-1, ferritin and transferrin receptor) by affecting the conformation of iron regulatory protein (IRP)-1 and its binding to iron regulatory elements (IRES) in the 5'- or 3'-UTRs of the mRNAs. To date, three identified heme oxygenase isoforms are part of the HO system that catalyze heme into biliverdin and carbon monoxide. These are inducible HO-1 or Hsp32, constitutive HO-2 that is abundant in the brain and testis, and HO-3 which is related to HO-2 but is the product of a different gene. The HO system is the rate-limiting step in heme degradation and HO activity decreases the levels of heme which is a well known potent catalyst of lipid peroxidation and oxygen radical formation. |
| Product Categories/Family for anti-HO-2 antibody   | <a href="#">Protein Synthesis &amp; Folding</a> ; <a href="#">Oxidative Stress</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">1170328</a>                                                                                                    |
| NCBI GeneID                      | <a href="#">3163</a>                                                                                                       |
| UniProt Accession #              | <a href="#">P30519</a> ; <a href="#">O60605</a> ; <a href="#">A8MT35</a> ; <a href="#">D3DUD5</a> ; <a href="#">I3L430</a> |
| Molecular Weight                 | 32,837 Da                                                                                                                  |
| NCBI Official Full Name          | Heme oxygenase 2                                                                                                           |
| NCBI Official Synonym Full Names | heme oxygenase 2                                                                                                           |
| NCBI Official Symbol             | HMOX2                                                                                                                      |
| NCBI Official Synonym Symbols    | HO-2                                                                                                                       |
| NCBI Protein Information         | heme oxygenase 2                                                                                                           |
| UniProt Protein Name             | Heme oxygenase 2                                                                                                           |
| UniProt Gene Name                | <b>HMOX2</b>                                                                                                               |
| UniProt Synonym Gene Names       | HO2; HO-2                                                                                                                  |

**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://stage.aaabiotech.com/polyclonal/ho-2-antibody-western-blot-immunoprecipitation-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/77026>