# Mouse GRP170 Monoclonal Antibody | anti-GRP170 antibody

Mouse Anti-Human GRP170 Monoclonal IgG2bK

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA103781** | **Mouse** | **Human, Mouse, Rat** | **Western Blot** |

## PRODUCT SYNONYMS

GRP170; Monoclonal Antibody; Mouse Anti-Human GRP170 Monoclonal IgG2bK; ORP150 Antibody; HSP12A Antibody; Hypoxia up regulated 1 Antibody; Orp150 Antibody; Glucose regulated Antibody 170 Antibody; 150kDa oxygen regulated Antibody Antibody; GRP170 Antibody: ATTO 488; Mouse Anti-Human GRP170 Monoclonal; Clone 6E3-2C3; Anti-GRP170; GRP170 Antibody; anti-GRP170 antibody

## PRODUCT SPECIFICATIONS

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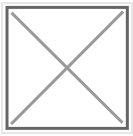
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2b |
| **Clone Number** | 6E3-2C3 |
| **Purity/Purification** | Protein G Purified |
| **Concentration** | 1 mg/ml (varies by lot) |
| **Sequence Length** | 559 |
| **Applicable Applications for anti-GRP170 antibody** | WB (Western Blot) |
| **Immunogen** | Raised against a synthetic peptide of human GRP170 |
| **Immunogen Species** | Human |
| **COA** | 1 ug/ml was sufficient for detection of GRP170 in 20 ug of HEK293 lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody. |
| **Storage Buffer** | PBS pH7.4, 50% glycerol, 0.1% sodium azide |
| **Conjugate** | ATTO 488 |
| **Cellular Localization** | Endoplasmic Reticulum, Endoplasmic Reticulum Lumen |
| **Preparation and Storage** | Store at -20 degree C |

## IMAGES

**WB (Western Blot)**
Western Blot analysis of Rat Liver showing detection of ~170 kDa GRP170 protein using Mouse Anti-GRP170 Monoclonal Antibody, Clone 6E3-2C3 . Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Liver cell lysate. Load: 20 ug. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-GRP170 Monoclonal Antibody at 1:1000 for 16 hours at 4 degree C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:100 for 60 min at RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~170 kDa.

**WB (Western Blot)**
Western Blot analysis of Human HEK-293 cell lysate showing detection of ~170 kDa GRP170 protein using Mouse Anti-GRP170 Monoclonal Antibody, Clone 6E3-2C2 . Lane 1: Molecular Weight Ladder (MW). Lane 2: HEK-293 cell lysate. Load: 20 ug. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-GRP170 Monoclonal Antibody at 1:1000 for 16 hours at 4 degree C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:100 for 60 min at RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~170 kDa. Other Band(s): 100 kDa.



**ICC (Immunocytochemistry)**
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GRP170 Monoclonal Antibody, Clone 6E3-2C3 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GRP170 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT. Localization: Endoplasmic Reticulum, Endoplasmic Reticulum Lumen. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) GRP170 Antibody. (D) Composite.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-GRP170 antibody** | GRP170, also known as ORP150, is the largest member of glucose-regulated Antibodys, and acts as a human chaperone Antibody. It is thought to play an important role in Antibody folding and secretion in the ER. Suppression of the Antibody is associated with accelerated apoptosis, therefore having an important cryoprotective role in hypoxia-induced cellular pertubation. This cryopotective role has led to an anti-tumor immune response, which will hopefully lead to therapeutic immunizations against cancers (1). GRP170 has also been shown to bind with dendritic cells and provide the danger signals to induce anti-tumor immune responses (2). |
| **Product Categories/Family for anti-GRP170 antibody** | Cancer; Heat Shock; Neuroscience; Neurodegeneration; Epigenetics; Trafficking; cardiovascular System |
| **References** | 1. Wang H., et al. (2014) Front Oncol. 4: 377. 2. Manjili M.H., et al. (2006) Immun. Cell Biol. 84: 203-208. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GeneID** | 10525 |
| **UniProt Accession #** | Q9Y4L1; Q2I204; Q53H25; A8C1Z0; B7Z909 |
| **Molecular Weight** | Detects ~170kDa. |
| **NCBI Official Synonym Full Names** | hypoxia up-regulated 1 |
| **NCBI Official Symbol** | HYOU1 |
| **NCBI Official Synonym Symbols** | Grp170; HSP12A; ORP150; GRP-170; ORP-150 |
| **NCBI Protein Information** | hypoxia up-regulated protein 1 |
| **UniProt Protein Name** | Hypoxia up-regulated protein 1 |
| **UniProt Gene Name** | **HYOU1** |
| **UniProt Synonym Gene Names** | GRP170; ORP150; ORP-150; GRP-170 |
| **UniProt Entry Name** | HYOU1_HUMAN |

**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/monoclonal/grp170-antibody-clone-6e3-2c3-western-blot-elisa/103781