Datasheet for ABIN2868629

anti-HYOU1 antibody (Atto 390)

3 Images

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Overview

Quantity:	100 µg
Target:	HYOU1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HYOU1 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant Full length GRP170 Protein
Clone:	6E3-2C3
Isotype:	IgG2b
Specificity:	Detects ~170 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	HYOU1
Alternative Name:	GRP170 (HYOU1 Products)
Background:	GRP170, also known as ORP150, is the largest member of glucose-regulated Antibodys, and

Target Details

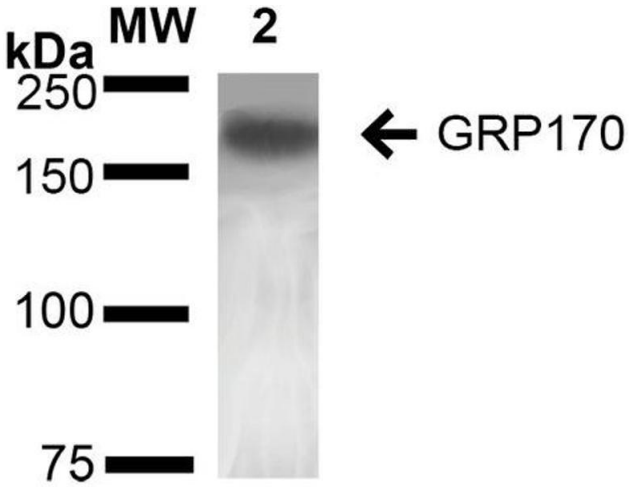
	acts as a human chaperone Antibody. It is thought to play an important role in Antibody folding and secretion in the ER. Suppression of the Antibody is associated with accelerated apoptosis, therefore having an important cryoprotective role in hypoxia-induced cellular pertubation. This cryopotective 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).
Gene ID:	10525
NCBI Accession:	NP_006389
UniProt:	Q9Y4L1
Pathways:	ER-Nucleus Signaling, SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2868629 was sufficient for detection of GRP170 in 20 µg of HEK293 lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

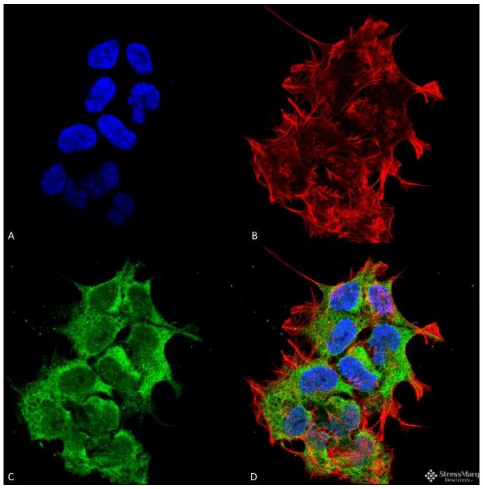
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



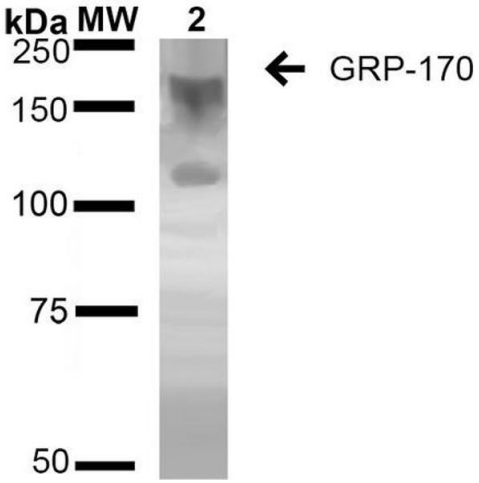
Western Blotting

Image 1. Western Blot analysis of Rat Liver showing detection of ~170 kDa GRP170 protein using Mouse Anti-GRP170 Monoclonal Antibody, Clone 6E3-2C3 (ABIN2868629). Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Liver cell lysate. Load: 20 µg. Block: 2 % BSA and 2 % Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-GRP170 Monoclonal Antibody (ABIN2868629) at 1:1000 for 16 hours at 4 °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.



Immunofluorescence (fixed cells)

Image 2. 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.



Western Blotting

Image 3. Western Blot analysis of Human Embryonic kidney epithelial cell line (HEK293) lysates showing detection of ~170 kDa GRP170 protein using Mouse Anti-GRP170 Monoclonal Antibody, Clone 6E3-2C2 (ABIN2868629). Lane 1: Molecular Weight Ladder (MW). Lane 2: HEK-293 cell lysate. Load: 20 µg. Block: 2 % BSA and 2 % Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-GRP170 Monoclonal Antibody (ABIN2868629) at 1:1000 for 16 hours at 4 °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.