ARG20531
anti-BiP / GRP78 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes BiP / GRP78
Tested Reactivity	Hu, Ms, Rat, Bov, Dog, Fungi, Hm, Mk, Rb, Xenopus laevis
Predict Reactivity	Bov, Hm, Mk, Rb, Xenopus
Tested Application	ICC/IF, IHC-FoFr , IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BiP / GRP78
Species	Rat
Immunogen	KLH-conjugated sythetic peptide of Rat BiP / GRP78.
Conjugation	Un-conjugated
Alternate Names	Heat shock 70 kDa protein 5; BiP; GRP-78; Endoplasmic reticulum lumenal Ca; MIF2; 78 kDa glucose-regulated protein; GRP78; Immunoglobulin heavy chain-binding protein; HEL-S-89n; BIP; 2+

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IHC-FoFr	Assay-dependent
IHC-P	Assay-dependent
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

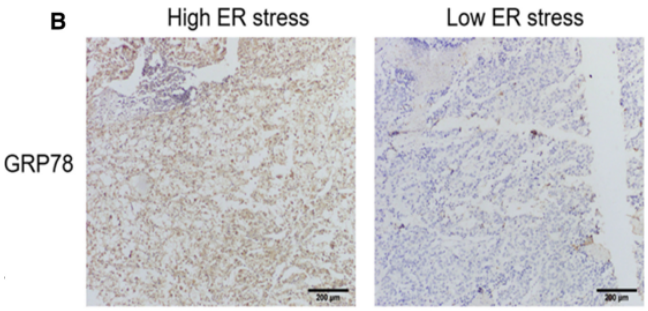
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	Rabbit antiserum.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	Hspa5
Gene Full Name	heat shock protein 5
Background	The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. It is localized in the lumen of the endoplasmic reticulum (ER), and is involved in the folding and assembly of proteins in the ER. As this protein interacts with many ER proteins, it may play a key role in monitoring protein transport through the cell.[provided by RefSeq, Sep 2010]
Function	Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10, probably to facilitate the release of DNAJC10 from its substrate (By similarity). [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30316 ER Marker Antibody Duo Related products: GRP78 antibodies; GRP78 Duos / Panels; Anti-Rabbit IgG secondary antibodies;
Research Area	Controls and Markers antibody; ER Marker antibody; Endoplasmic reticulum antibody
Calculated Mw	72 kDa

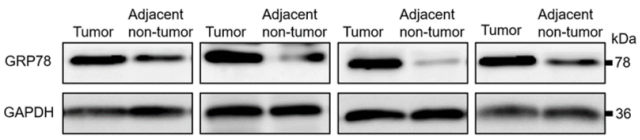
Images



ARG20531 anti-BiP / GRP78 antibody IHC-P image

Immunohistochemistry: Human hepatocellular carcinoma stained with ARG20531 anti-BiP / GRP78 antibody at 1:500 dilution.

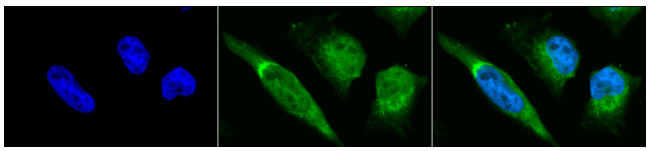
From Yue Zhu et al. Cancer Med. (2020), doi: 10.1002/cam4.2977, Fig. 5B.



ARG20531 anti-BiP / GRP78 antibody WB image

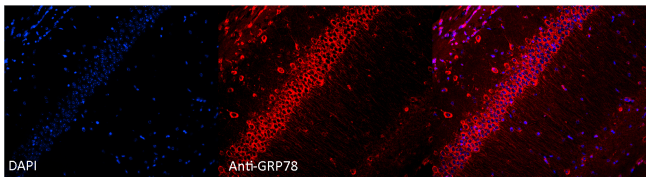
Western blot: Human hepatocellular carcinoma stained with ARG20531 anti-BiP / GRP78 antibody at 1:500 dilution.

From Yue Zhu et al. Cancer Med. (2020), doi: 10.1002/cam4.2977, Fig. 5D.



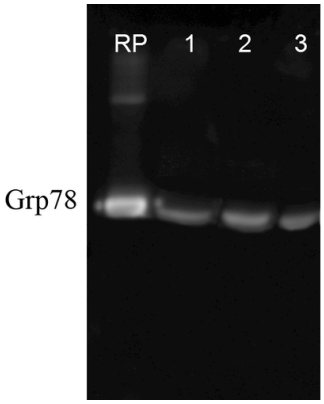
ARG20531 anti-BiP / GRP78 antibody ICC/IF image

Immunofluorescence: Heat Shocked (42°C for 30 min) HeLa cells. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: ARG20531 anti-BiP / GRP78 antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Magnification: 100x. Left: DAPI (blue) nuclear stain. Middle: ARG20531 anti-BiP / GRP78 antibody. Right: Composite.



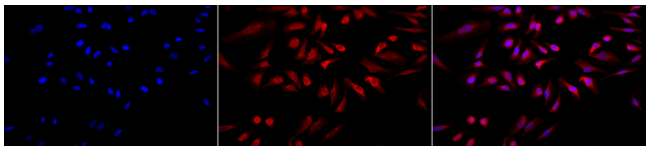
ARG20531 anti-BiP / GRP78 antibody IHC image

Immunohistochemistry: Formaldehdye-fixed and parrafin embedded sections of Mouse hippocampal tissue stained with ARG20531 anti-BiP / GRP78 antibody at 1:100 dilution. Tissue was counterstained using DAPI at a 1:1000 dilution in order to visualize the nuclei in the pyramidal cell layer. Images courtsey of Rachel Reith, NIH/NIMH.



ARG20531 anti-BiP / GRP78 antibody WB image

Western blot: Human, Dog, Mouse cell line lysates stained with ARG20531 anti-BiP / GRP78 antibody at 1:1000 dilution.



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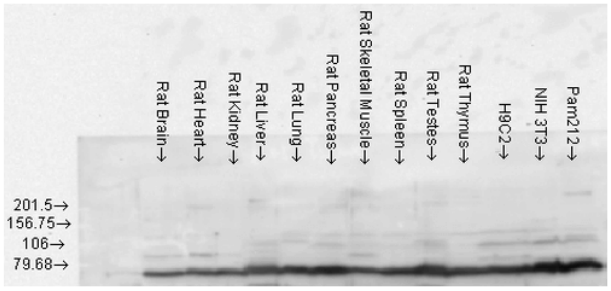

ARG20531 anti-BiP / GRP78 antibody WB image

Western blot: Rat brain, heart, kidney, liver, lung, pancreas, skeletal muscle, spleen, testes, thymus, H9C2 cell, Mouse NIH 3T3 and Pam212 cell lysates stained with ARG20531 anti-BiP / GRP78 antibody.