

GRP78/BIP Polyclonal Antibody

Catalog number: 11587-1-AP

Size: 86 µg/150 µl

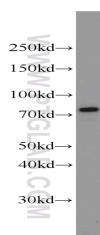
Source: Rabbit

Isotype: IgG

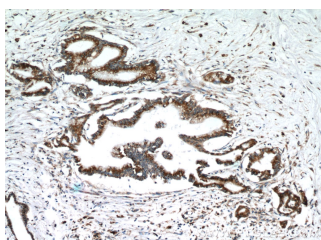
Synonyms:

HSPA5; BIP, GRP 78, GRP78,

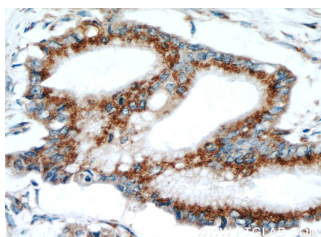
HSP A5, HSPA5, MIF2



HepG2 cells were subjected to SDS PAGE followed by western blot with 11587-1-AP (GRP78, BIP antibody) at dilution of 1:1000



Immunohistochemical of paraffin-embedded human pancreas cancer using 11587-1-AP (GRP78, BIP antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human pancreas cancer using 11587-1-AP (GRP78, BIP antibody) at dilution of 1:50 (under 40x lens)

Background

GRP78 (HSPA5), also referred to as 'immunoglobulin heavy chain-binding protein' (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER). It is a constitutively expressed resident protein of the ER in all eukaryotic cells. Recently it has been reported that GRP78 is associated with apoptosis or inhibition of cancer cell growth.

Applications

Tested applications:	ELISA, WB, IP, IF, FC, IHC
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat, zebrafish
Calculated GRP78/BIP MW:	78 kDa
Observed GRP78/BIP MW:	78 kDa
Positive WB detected in	HepG2 cells, BxPC-3 cells, HeLa cells, MCF7 cells, rat liver tissue, TN treated Hela cells
Positive IP detected in	MCF-7 cells
Positive IHC detected in	Human pancreas cancer tissue, human brain tissue, human breast cancer tissue, human colon cancer tissue, mouse heart tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HeLa cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:10-1:100 FC: N/A

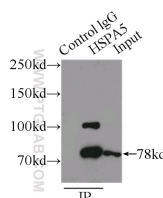
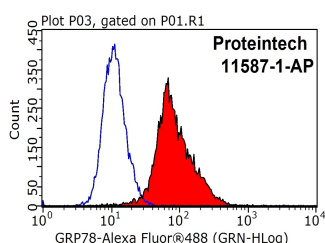
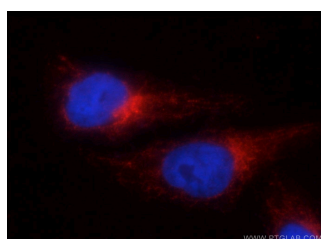
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2188
GenBank accession number:	BC020235
Gene ID (NCBI):	3309
Full name:	Heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



Immunofluorescent analysis of HepG2 cells using 11587-1-AP(GRP78,BIP Antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG	1X10 ⁶ HeLa cells were stained with 0.2ug GRP78,BIP antibody (11587-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.	IP Result of anti-GRP78,BIP (IP:11587-1-AP, 3ug; Detection:11587-1-AP 1:1000) with MCF-7 cells lysate 3250ug.
--	--	---