

For Research Use Only

# CoraLite®594-conjugated GRP78/BIP Monoclonal antibody

Catalog Number:CL594-66574

Featured Product

1 Publications



## Basic Information

Catalog Number:

CL594-66574

Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG2188

GenBank Accession Number:

BC020235

GeneID (NCBI):

3309

UNIPROT ID:

P11021

Full Name:

heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)

Calculated MW:

78 kDa

Observed MW:

78 kDa

Purification Method:

Protein G purification

CloneNo.:

1D6F7

Recommended Dilutions:

WB 1:500-1:2000

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

WB, FC (Intra)

Species Specificity:

Human, rat, mouse

Cited Species:

human

Positive Controls:

WB : A549 cells, HeLa cells, HepG2 cells, MCF-7 cells, NIH/3T3 cells, HSC-T6 cells

## Background Information

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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Gao Yuan	38113969	Exp Cell Res	

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

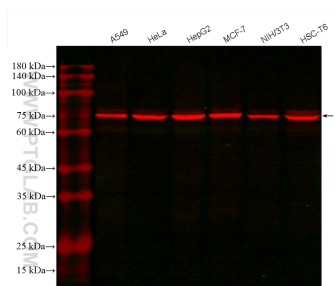
For technical support and original validation data for this product please contact:

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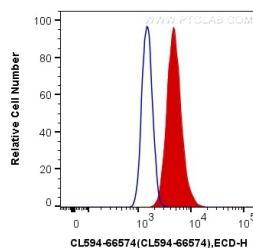
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL594-66574 (GRP78/BIP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human GRP78/BIP (CL594-66574, Clone:1D6F7) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).