**Product Datasheet**

# GRP78 BiP Antibody

Catalog No: CY5166 Reactivity: Human, Mouse, Rat

Isotype: Rabbit IgG Applications: WB IHC

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## Information

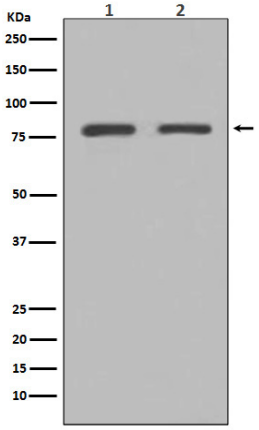
**UniProt ID:** P11021
**All Names:** GRP-78; GRP78; BIP; MIF2; FLJ26106; HSPA5
**Form:** Liquid
**Storage instructions:** Store at +4˚ C short term. Store at -20˚ C long term. Avoid freeze / thaw cycle.
**Storage buffer:** pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
**Purity:** Affinity-chromatography
**Immunogen:** Synthesized peptide
**Molecular Wt.:** 78kDa

## Application

WB: 1:500~1:2000
IHC: 1:50~1:200

## Background

When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins (GRPs), is markedly increased. Hendershot et al. (1994) (PubMed 8020977) pointed out that one of these, 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). Because so many ER proteins interact transiently with GRP78, it may play a key role in monitoring protein transport through the cell.Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER.The HSP70 proteins are ubiquitous molecular chaparones that are found in all organisms and tissue types.




Western blot analysis of extracts from (1)HeLa cells;
(2)C6 cell, using GRP78 BiP antibody.

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