

HSPA5 Ab

[Images\(1\)](#)

Cat.#: BF0317	Concn.: ~1mg/ml	Mol.Wt.: 78kDa
Size:	Source: Mouse	Clonality: Monoclonal

Application: ELISA 1:10000, WB 1:500-1:2000, IHC 1:200-1:1000
*The optimal dilutions should be determined by the end user.

Reactivity: Human, Monkey

Storage: Mouse IgG1 in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification: Affinity-chromatography.

Immunogen: Purified recombinant fragment of human HSPA5 expressed in E. Coli.

Uniprot: P11021

Description: 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. (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 chaperones that are found in all organisms and tissue types.

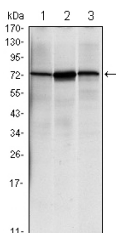


Figure 1: Western blot analysis using HSPA5 mouse mAb against NIH/3T3 (1), HeLa (2) and Jurkat (3) cell lysate.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.