

## Mouse Monoclonal Antibody to HSPA5

Catalogue Number	sAP-0381
Target Molecule	<b>Name:</b> HSPA5 <b>Aliases:</b> BIP; MIF2; GRP78; FLJ26106; HSPA5 <b>MW:</b> 78kDa <b>Entrez Gene ID:</b> 3309
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. (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 chaperones that are found in all organisms and tissue types. Like other members of the HSP70 family, BiP
Immunogen	Purified recombinant fragment of human HSPA5 expressed in E. Coli.
Recitative Species	Human
Clone	MM4E3;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide. ;
Reconstitution/Storages	Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Int J Cancer. 2010 Apr 1;126(7):1562-9. ; 2. J Virol. 2009 Dec;83(23):12622-5. ; 3. Mod Pathol. 2010 Jan;23(1):45-53.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**