

HSPA5 Conjugated Antibody

Catalog No: #C38110



Package Size: #C38110-AF350 100ul #C38110-AF405 100ul #C38110-AF488 100ul
 #C38110-AF555 100ul #C38110-AF594 100ul #C38110-AF647 100ul
 #C38110-AF680 100ul #C38110-AF750 100ul #C38110-Biotin 100ul

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Description

Product Name	HSPA5 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total HSPA5 antibody.
Immunogen Description	Recombinant protein of human HSPA5.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	HSPA5;BIP;FLJ26106;GRP78;MIF2 ;
Accession No.	Swiss-Prot#:P11021NCBI Gene ID:3309
Uniprot	P11021
GeneID	3309;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	78
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Secretory and transmembrane proteins are synthesized on polysomes and translocated into the endoplasmic reticulum (ER). Inside the ER, these proteins are often modified by disulfide bond formation, amino-linked glycosylation and folding. To help proteins fold properly, the ER contains a pool of molecular chaperones including HSPA5. HSPA5 was identified as an immunoglobulin heavy chain binding protein in pre-B cells (1,2). It was also found to be induced at the protein level by glucose starvation (3). When protein folding is disturbed inside ER, HSPA5 synthesis is increased. Subsequently, HSPA5 binds to misfolded proteins to prevent them from forming aggregates and assists in proper refolding (4).

Note: This product is for in vitro research use only