

Immunotag™ GRP78 Antibody

Antibody Specification	
Catalog No.	ITA1538
Product Description	Immunotag™ GRP78 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	GRP78
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000,IHC 1:50-1:200,IF 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human GRP78
Specificity	GRP78 Antibody detects endogenous levels of total GRP78
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	HSPA5
Accession No.	P11021

Antibody Specification

Alternate Names	78 kDa glucose regulated protein; 78 kDa glucose-regulated protein; AL022860; AU019543; BiP; D2Wsu141e; D2Wsu17e; Endoplasmic reticulum lumenal Ca(2+)-binding protein grp78; Endoplasmic reticulum lumenal Ca2+ binding protein grp78; Epididymis secretory sperm binding protein Li 89n; FLJ26106; Glucose Regulated Protein 78kDa; GRP 78; GRP-78; GRP78; GRP78_HUMAN; Heat shock 70 kDa protein 5; Heat Shock 70kDa Protein 5; Heat shock protein family A (Hsp70) member 5; HEL S 89n; Hsce70; HSPA 5; HSPA5; Immunoglobulin Heavy Chain Binding Protein; Immunoglobulin heavy chain-binding protein; mBiP; MIF2; Sez7;
Description	Endoplasmic reticulum chaperone that plays a key role in protein folding and quality control in the endoplasmic reticulum lumen (PubMed:2294010, PubMed:23769672, PubMed:23990668, PubMed:28332555). Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10/ERdj5, probably to facilitate the release of DNAJC10/ERdj5 from its substrate (By similarity). Acts as a key repressor of the ERN1/IRE1-mediated unfolded protein response (UPR) (PubMed:1550958, PubMed:19538957). In the unstressed endoplasmic reticulum, recruited by DNAJB9/ERdj4 to the luminal region of ERN1/IRE1, leading to disrupt the dimerization of ERN1/IRE1, thereby inactivating ERN1/IRE1 (By similarity). Accumulation of misfolded protein in the endoplasmic reticulum causes release of HSPA5/BiP from ERN1/IRE1, allowing homodimerization and subsequent activation of ERN1/IRE1 (By similarity).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	78 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.