

Rat Glucose regulated protein 78 ELISA Kit | GRP78 elisa kit

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CATALOG #
AAA96566

REACTIVITY
Rat

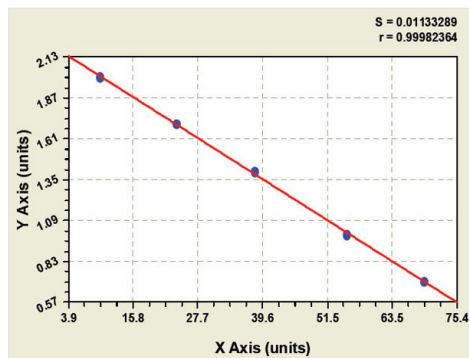
PRODUCT SYNONYMS

Glucose regulated protein 78; Rat Glucose regulated protein 78 ELISA Kit; GRP78 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GRP78 elisa kit

Principle of the assay: GRP78 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-GRP78 antibody and an GRP78-HRP conjugate. The assay sample and buffer are incubated together with GRP78-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GRP78 concentration since GRP78 from samples and GRP78-HRP conjugate compete for the anti-GRP78 antibody binding site. Since the number of sites is limited, as more sites are occupied by GRP78 from the sample, fewer sites are left to bind GRP78-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GRP78 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386758
NCBI GeneID	3309
Molecular Weight	72,333 Da
NCBI Official Full Name	GRP78, partial
NCBI Official Synonym Full Names	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
NCBI Official Symbol	HSPA5
NCBI Official Synonym Symbols	BIP; MIF2; GRP78; HEL-S-89n
NCBI Protein Information	78 kDa glucose-regulated protein; immunoglobulin heavy chain-binding protein; epididymis secretory sperm binding protein Li 89n; endoplasmic reticulum lumenal Ca(2+)-binding protein grp78
UniProt Protein Name	78 kDa glucose-regulated protein
UniProt Gene Name	HSPA5
UniProt Synonym Gene Names	GRP78; GRP-78; BiP
UniProt Entry Name	GRP78_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/grp78-rat-elisa-kits/glucose-regulated-protein-78/96566>