

PRODUCT DATA SHEET

Glucose-Regulated Protein 78 Human, Sheep Polyclonal Antibody

Cat. No.: RD184230100

Size: 0.1 mg

Source of Antigen: E. coli

Type: Polyclonal Antibody

Host: Sheep

Other Names:

78 kDa glucose-regulated protein, Heat shock 70 kDa protein 5, Immunoglobulin heavy chain-binding protein, BiP, Endoplasmic reticulum lumenal Ca(2+)-binding protein grp78, HSPA5, GRP-78

Preparation:

The antibody was raised in sheep by immunization with the recombinant Human GRP-78.

Amino Acid Sequence of Immunogen:

Total 646 AA. MW: 71.72 kDa (calculated). UniProtKB acc.no. P11021. N-Terminal His-tag, 10 extra AA (highlighted).

MKHHHHHHAS EEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIANDQG NRITPSYVAF
TPEGERLIGD AAKNQLTSNP ENTVFDKRL IGRTWNDPSV QQDIKFLPFK VVEKKTTPYI
QVDIGGGQTK TFAPEEISAM VLTkMKETAe AYLGKKVTHA VVTVPAYFND AQRQATKDAG
TIAGLNVMRI INEPTAAAIA YGLDKREGEK NILVFDLGGG TFDVSLTID NGVFEVVATN
GDTHLGGEDF DQRVMEHFIK LYKKKTGKDV RKDNRAVQKL RREVEKAKRA
LSSQHQARIE IESFYEGEDF SETLTRAKFE ELNMDLFRST MKPVQKVLED SDLKSDIDE
IVLVGGSTRI PKIQQLVKEF FNGKEPSRGI NPDEAVAYGA AVQAGVLSGD QDTGDLVLLD
VCPLTLGIET VGGVMTKLIP RNTVVPTKKS QIFSTASDNQ PTVTIKVYEG ERPLTKDNHL
LGTFDLTGIP PAPRGVPQIE VTFEIDVNGI LRVTAEKGT GNKNKITITN DQNRLTPEEI
ERMVNDAEKF AEEDKKLKER IDTRNELESY AYSLKNQIGD KEKLGGLSS EDKETMEKAV
EEKIEWLESH QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPPTGEEDT AEKDEL

Purification Method:

Immunoaffinity chromatography on a column with immobilized recombinant Human GRP-78.

Species Reactivity:

Human. Not yet tested in other species.

Antibody Content:

0.1 mg (determined by BCA method, BSA was used as a standard)

Formulation:

The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. ****AZIDE FREE****.

Reconstitution:

Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

Shipping:

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Stability:

The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C . Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C .

Quality Control:

Indirect ELISA – to determine titer of the antibody

SDS PAGE – to determine purity of the antibody

BCA - to determine quantity of the antibody

Applications:

Western blotting

Note:

This product is for research use only.