

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.

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MKHHHHHHAS EEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIIANDQG NRITPSYVAF  
TPEGERLIGD AAKNQLTSNP ENTVFDKRL IGRTWNDPSV QQDIKFLPFK VVEKKTOPYI  
QVDIGGGQTK TFAPEEISAM VLTMMKETAE AYLGGKVTTHA VVTVPAYFND AQRQATKDAG  
TIAGLNVMRI INEPTAAAIA YGLDKREGEK NILVFDLGGG TFDVSLTID NGVFEVVATN  
GDTHLGGEDF DQRMMEHFVK LYKKKTGKDV RKNRAVQKL RREVEKAKRA LSSQHQARIE  
IESFYEGEDF SETLTRAKFE ELNMDLFRST MKPVQKVLED SDLKKSIDE IVLVGGSTRI  
PKIQQLVKEF FNGKEPSRGI NPDEAVAYGA AVQAGVLSGD QDTGDLVLLD VCPLTLGIET  
VGGVMTKLIP RNTVVPTKKS QIFSTASDNQ PVTIKVYEG ERPLTKDNHL LGTFDLTGIP  
PAPRGVPQIE VTFEIDVNGI LRVTAEDKGT GNKNKITITN DQNRLTPEEI ERMVNDAEKF  
AEEDKKLKER IDTRNELESY AYSLKNQIGD KEKLGKLLSS EDKETMEKAV EEKIEWLESH  
QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPPTGEEDT AEKDEL
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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.

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.