

Product datasheet

Recombinant human GRP78 BiP protein (Active) ab78432

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Description

Product name	Recombinant human GRP78 BiP protein (Active)
Biological activity	ab78432 has ATPase activity at the time of manufacture of 2.3µM phosphate liberated/hr/µg protein in a 200µl reaction at 37°C (pH7.5) in the presence of 20ul of 1mM ATP, using a Malachite Green assay.
Purity	> 90 % SDS-PAGE. Ab78432 is purified by affinity purification.
Expression system	Escherichia coli
Accession	<u>P11021</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Sequence

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MKLSLVAAML LLLSAARAE EDKKEDVGTV
VGIDLGTTYS CVGVFKNGRV EIIANDQGNR ITPSYVAFTP
EGERLIGDAA KNQLTSNPEN TVFDAKRLIG
RTWNDPSVQQ DIKFLPFKVV EKKTKPYIQV
DIGGGQTKTF APEEISAMVL TKMKETAEAY
LGKKVTHAVV TVPAYFND AQ RQATKDAGTI AGLNVMRIIN
EPTAAAIAYG LDKREGEKNI LVFDLGGGTF DVSLLTIDNG
VFEVVATNGD THLGGEDFDQ RVMEHFILY
KKKTGKDVRK DNRAVQKLRR EVEKAKRALS
SQHQARIEIE SFYEGEDFSE TLTRAKFEEL
NMDLFRSTMK PVQKVLESD LKKSIDIDEM
LVGGSTRIPK IQQLVKEFFN GKEPSRGINP
DEAVAYGAAV QAGVLSGDQD TGDVLVLLDVC
PLTLGIETVG GVMTKLIPRN TVVPTKKSQI FSTASDNQPT
VTIKVYEGER PLTKDNHLLG TFDLTGIPPA PRGVPQIEVT
FEIDVNGILR VTAEDKGTGN KNKITITNDQ NRLTPEEIER
MVNDAEKFAE EDKCLKERID TRNELESYAY
SLKNQIGDKE KLGKGLSSED KETMEKAVEE
KIEWLESHQD ADIEDFKAKK KELEEVQPI ISKLYGSAGP
PPTGEEDTAE KDEL
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Predicted molecular weight	78 kDa
Amino acids	1 to 654
Tags	His tag N-Terminus
Additional sequence information	his-tagged (Gene ID 3309)(NM_005347)

Specifications

Our **Abpromise guarantee** covers the use of **ab78432** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA Functional Studies Competitive Binding Assays SDS-PAGE
Form	Liquid

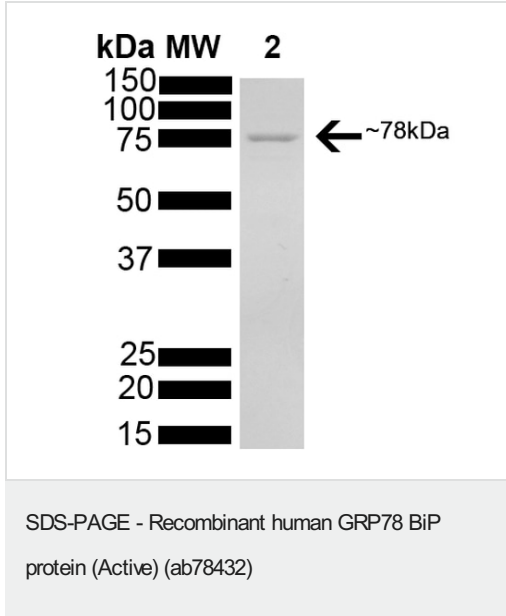
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. pH: 7.50 Constituents: 0.79% Tris HCl, 0.88% Sodium chloride, 10% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
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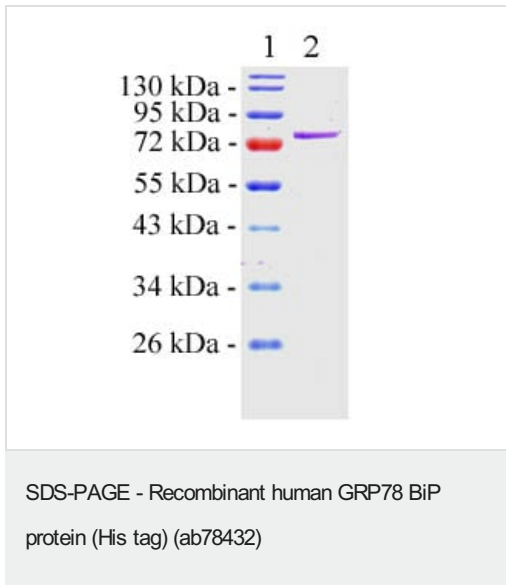
General Info

Function	Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10, probably to facilitate the release of DNAJC10 from its substrate.
Involvement in disease	Autoantigen in rheumatoid arthritis.
Sequence similarities	Belongs to the heat shock protein 70 family.
Cellular localization	Endoplasmic reticulum lumen. Melanosome. Cytoplasm. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



SDS-PAGE of 78kDa Grp78 (Bip) protein.



Lane 1. Molecular weight ladder

lane 2. GRP78 BiP protein

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