

Product datasheet

Recombinant Human hHR23A protein ab152648

1 Image

Description

Product name	Recombinant Human hHR23A protein
Expression system	Wheat germ
Accession	P54725
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MAVTITLKTLLQQQTFKIRMEPDETVKVLKEKIEAEKGRDAF PVAGQKLIY AGKILSDDVPIRDYRIDEKNFVVVMVTKTKAGQGTSAPPE ASPTAAPSS TSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPESVSG SVPSSGSSGRE EDAASTLVGTGSEYETMLTEIMSMGYERERVVAALRASYN PHRAVEYLLT GIPGSPEPEHGSVQESQVSEQPATEAAGENPLEFLRDQP QFQNMQRQVIQQ NPALLPALLQQLGQENPQLLQQISRHQEQFIQMLNEPPGE LADISDVEGE VGAIGEEAPQMNYIQVTPQEKEAIERLKGALGFPELVIQAYF ACEKNENL AANFLLSQNFDDE</p>
Predicted molecular weight	66 kDa including tags
Amino acids	1 to 363

Specifications

Our [Abpromise guarantee](#) covers the use of **ab152648** 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
	SDS-PAGE
	ELISA
Form	Liquid

Additional notes

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function

Multiubiquitin chain receptor involved in modulation of proteasomal degradation. Binds to 'Lys-48'-linked polyubiquitin chains in a length-dependent manner and with a lower affinity to 'Lys-63'-linked polyubiquitin chains. Proposed to be capable to bind simultaneously to the 26S proteasome and to polyubiquitinated substrates and to deliver ubiquitinated proteins to the proteasome.

Involved in nucleotide excision repair and is thought to be functional equivalent for RAD23B in global genome nucleotide excision repair (GG-NER) by association with XPC. In vitro, the XPC:RAD23A dimer has NER activity. Can stabilize XPC.

Involved in vpr-dependent replication of HIV-1 in non-proliferating cells and primary macrophages. Required for the association of HIV-1 vpr with the host proteasome.

Sequence similarities

Belongs to the RAD23 family.

Contains 2 UBA domains.

Contains 1 ubiquitin-like domain.

Domain

The ubiquitin-like domain mediates interaction with ATXN3.

The ubiquitin-like (UBL) and the UBA (ubiquitin-associated) domains interact intramolecularly in a highly dynamic manner, as each UBA domain competes for an overlapping UBL domain surface. Binding of ubiquitin or proteasome subunit PSMD4 disrupt the UBL-UBA domain interactions and drive RAD23A in to an open conformation.

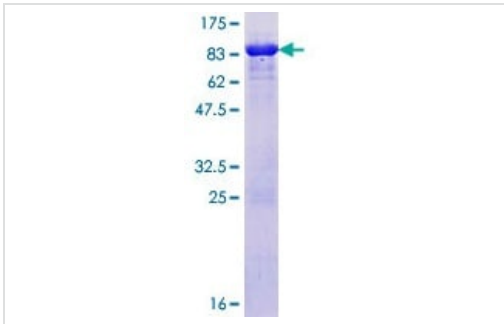
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Nucleus.

Images



12.5% SDS-PAGE analysis of ab152648 stained with Coomassie Blue.

SDS-PAGE - Recombinant Human hHR23A protein (ab152648)

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