

Product datasheet

Recombinant human UBC13 protein (Active) ab269107

[2 Images](#)

Description

Product name	Recombinant human UBC13 protein (Active)
Biological activity	The specific activity of ab269107 was determined to be 9 nmol/min/mg in a ubiquitination assay using wild-type ubiquitin protein substrate.
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P61088</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	AGLPRRIKETQRLLAEPVPGIKAEPDESNARYFHVVIAGPQ DSPFEGGT FKLELFLPEEYPMAAPKVRFMTKIYHPNVDKLGRIKLDILK DKWSPALQI RTVLLSIQALLSAPNPDDPLANDVAEQWKTNEAQAIETAR AWTRLYAMNN I
Molecular weight information	SDS-PAGE molecular weight: 18 kDa
Amino acids	2 to 152
Tags	His tag N-Terminus
Additional sequence information	GenBank: NM_003348

Specifications

Our **Abpromise guarantee** covers the use of **ab269107** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Liquid

Preparation and Storage

Preparation and Storage

Stability and Storage

Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.00

Preservative: 1.02% Imidazole

Constituents: 0.82% Sodium phosphate, 1.74% Sodium chloride, 0.002% PMSF, 0.004% DTT, 25% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

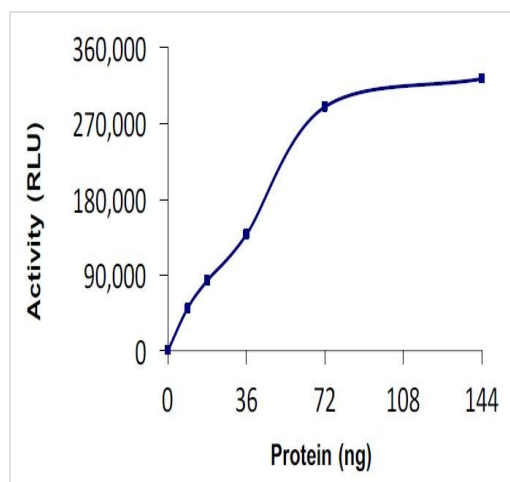
Relevance

UBC13 is a member of the E2 ubiquitin-conjugating enzyme family. It interacts with UBE2V2 to form a heterodimer that catalyzes the synthesis of poly-ubiquitin chains that are linked through 'Lys 63'. This type of poly-ubiquitination does not lead to protein degradation by the proteasome. UBC13 may play a role in the control of progress through the cell cycle and differentiation by mediating transcriptional activation of target genes. UBC13 plays a role in the error-free DNA repair pathway and contributes to the survival of cells after DNA damage. UBC13 acts with the E3 ligase SHPRH in the poly-ubiquitination of PCNA during genotoxic stress, which is required for DNA repair. It also interacts with ZNRF2.

Cellular localization

Nuclear

Images



Protein activity of ab269107 was determined to be 9 nmol/min/mg in a ubiquitination assay using wild-type ubiquitin protein substrate.

Functional Studies - Recombinant human UBC13 protein (Tagged) (ab269107)



SDS-PAGE analysis of ab269107.

SDS-PAGE - Recombinant human UBC13 protein (Tagged) (ab269107)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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