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Product datasheet

Recombinant Menin protein ab114387

1 Image

Description

Product name	Recombinant Menin protein
Expression system	Wheat germ
Accession	O00255-3
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Sequence	MGLKAAQKTLFPLRSIDDVVRLFAAELGREEPDLVLLSLV LGFVEHFL AVNRVIPTNVPELTFQPSPAPDPPGGLTYFPVADLSIIAALY ARFTAQIR GAVDLSLYPREGGVSSRELVKKVSDVIWNSLSRSYFKDR AHIQSLFSFIT GTKLDSSGVAFAVVGACQALGLRDVHLALSEDHAWSWL YLKGSYMRCDRK MEVAFMVCAINPSIDLHTDSLELLQLQQKLLWLLYDLGHLE RYPMALGNL ADLEELEPTPGRPDPLTLYHKGIASAKTYYRDEHIYPYMYLA GYHCRNRN VREALQAWADTATVIQDYNYCREDEEIYKEFFEVANDVIPN LLKEAASLL EAGEERPGEQSQGTQSQGSALQDPECFAHLLRFYDGICK WEEGSPTPVLH VGWATFLVQSLGRFEGQVRQKVRIVSREAEAAEAEEPW GEEAREGRRRGP RRESKPEEPPPPKKPALDKGLGTGQGAVSGPPRKPPGT VAGTARGPEGGS TAQVPAPAASPPPEGPVLTFQSEKMKGMKELLVATKINS SAIKLQLTAQS QVQMKKQKVSTPSDYTLSFLKRQRKGL
Predicted molecular weight	89 kDa
Amino acids	1 to 575

Specifications

Our **Abpromise guarantee** covers the use of **ab114387** in the following tested applications.

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

Applications	SDS-PAGE Western blot ELISA
Form	Liquid

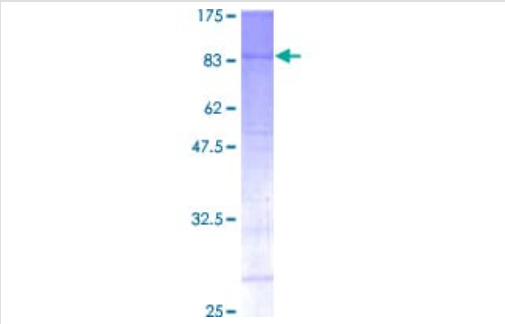
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Essential component of a MLL/SET1 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3 (H3K4). Functions as a transcriptional regulator. Binds to the TERT promoter and represses telomerase expression. Plays a role in TGFB1-mediated inhibition of cell-proliferation, possibly regulating SMAD3 transcriptional activity. Represses JUND-mediated transcriptional activation on AP1 sites, as well as that mediated by NFKB subunit RELA. Positively regulates HOXC8 and HOXC6 gene expression. May be involved in normal hematopoiesis through the activation of HOXA9 expression (By similarity). May be involved in DNA repair.
Tissue specificity	Ubiquitous.
Involvement in disease	Defects in MEN1 are the cause of familial multiple endocrine neoplasia type I (MEN1) [MIM:131100]. Autosomal dominant disorder characterized by tumors of the parathyroid glands, gastro-intestinal endocrine tissue, the anterior pituitary and other tissues. Cutaneous lesions and nervous-tissue tumors can exist. Prognosis in MEN1 patients is related to hormonal hypersecretion by tumors, such as hypergastrinemia causing severe peptic ulcer disease (Zollinger-Ellison syndrome, ZES), primary hyperparathyroidism, and acute forms of hyperinsulinemia. Defects in MEN1 are the cause of familial isolated hyperparathyroidism (FIHP) [MIM:145000]; also known as hyperparathyroidism type 1 (HRPT1). FIHP is an autosomal dominant disorder characterized by hypercalcemia, elevated parathyroid hormone (PTH) levels, and uniglandular or multiglandular parathyroid tumors.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus. Concentrated in nuclear body-like structures. Relocates to the nuclear matrix upon gamma irradiation.

Images



SDS-PAGE - Recombinant Menin protein (ab114387)

ab114387 analysed on a 12.5% SDS-PAGE Stained with Coomassie Blue.

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

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