

Product datasheet

Recombinant human SET7 protein ab167960

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Description

Product name	Recombinant human SET7 protein
Biological activity	The specific activity of ab167960 was determined to be 40 nmol/min/mg as per activity assay protocol.
Purity	> 95 % SDS-PAGE. Assessed by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q8WTS6</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDSDDDEMVEEAVEGHLDDDG LPHGFCTV TYSSSTRFEG NFVHGEKNGRGK FFFFDGSTLEGYVDDALQGQGVYTYEDGGVLQGTVDG ELNGPAQEYDT DGRLIFKGQYKDNIRHGVCWIYYPDGGSLVGEVNEDGEMT GEKIAYYPD ERTALYGKFDGEMIEGKLATLMSTEEGRPHFELMPGNSV YHFDKSTSSC ISTNALLPDPYESERVVAESLISSAGEGLFSKVAVGPNTV MSFYNGVRI THQEVDSRDWALNGNTLSLDEETVIDVPEPYNHVSKYCA SLGHKANHSFT PNCIYDMFVHPRFGPIKCIRTLRAVEADEELTVAYGYDHSP PGKSGPEAP EWYQVELKAFQATQQK
Predicted molecular weight	75 kDa including tags
Amino acids	1 to 366
Tags	proprietary tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab167960** 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
Functional Studies

Form Liquid

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 7.50
Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride
This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation. Also able to demethylated 'Lys-372' of p53/TP53 in vitro.

Tissue specificity Widely expressed. Expressed in pancreatic islets.

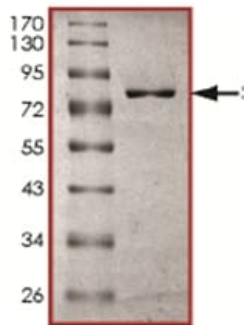
Sequence similarities Belongs to the histone-lysine methyltransferase family. SET7 subfamily.
Contains 3 MORN repeats.
Contains 1 SET domain.

Domain The SET domain is necessary but not sufficient for histone methyltransferase activity.

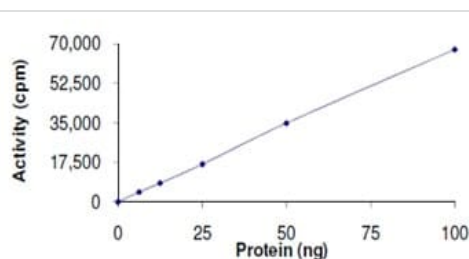
Cellular localization Nucleus. Chromosome.

Images

SDS Page analysis of ab167960



SDS-PAGE - Recombinant human SET7 protein
(ab167960)



Functional Studies - Recombinant human SET7
protein (ab167960)

The specific activity of ab167960 was determined to be 40 nmol/min/mg as per activity assay protocol.

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

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