

Recombinant Human SET7 protein ab51285

2 Images

Description	
Product name	Recombinant Human SET7 protein
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDSDDEMVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLE GYVDDALQG QGVYTYEDGG VLQGTVDGE LNGPAQEYDT DGRLIFKGQY KDNIRHGVCW IYPDGGSLV GEVNEDGEMT GEKIAYVYPD ERTALYGKFI DGEMIEGKLA TLMSTEEGRP HFELMPGNSV YHFDKSTSSC ISTNALLPDP YESERVYVAE SLISSAGEGL FSKVAVGPNT VMSFYNGVRI THQEVDSRDW ALNGNTLSLD EETVIDVPEP YNHVSKYCAS LGHKANHSFT PNCYDMFVH PRFGPIKCIR TLRAVEADEE LTVAYGYDHS PPGKSGPEAP EWYQVELKAF QATQQK
Predicted molecular weight	41 kDa

Specifications	
Our <b>Abpromise guarantee</b> covers the use of <b>ab51285</b> 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
Form	Liquid

Preparation and Storage	
Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 7.50

Constituents: 0.077% DTT, 0.79% Tris HCl, 20% Glycerol (glycerin, glycerine), 1.16% Sodium chloride

## 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.

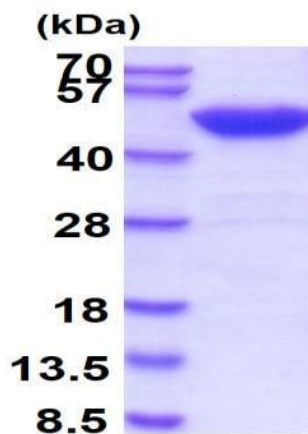
### Domain

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

### Cellular localization

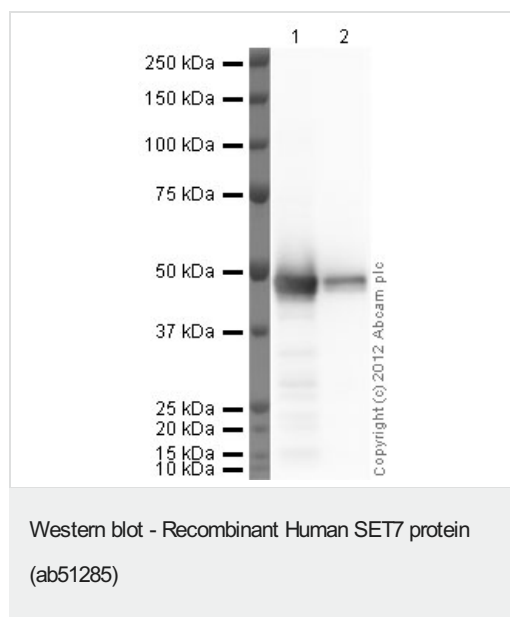
Nucleus. Chromosome.

## Images



ab51285 run on a 10% SDS-PAGE gel with molecular weight markers.

SDS-PAGE - Recombinant Human SET7 protein  
(ab51285)



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

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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