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EZH2 Protein (Lys27) (DYKDDDDK Tag, His tag)

2 Images



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Overview

Quantity:	25 μg
Target:	EZH2
Protein Characteristics:	Lys27
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EZH2 protein is labelled with DYKDDDDK Tag,His tag.
Application:	Enzyme Activity Assay (EAA)

Product Details

Characteristics:

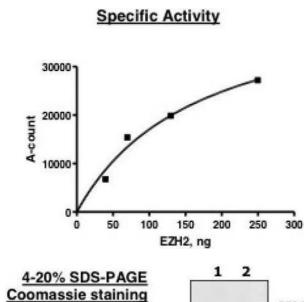
The EZH2 protein complex, active contains EZH2, EED and Suz12 which are the minimal components required for histone methyltransferase activity. EZH2 is specific for H3 lysine 27, a mark of repressed regions of chromatin. Recombinant human EZH2 (accession number NM_004456, amino acids 2-end with an N-terminal His tag, molecular weight 86 kDa) was coexpressed in a baculovirus expression system along with human EED (accession number NM_003797, amino acids 2-end with an N-terminal FLAG tag, molecular weight 51 kDa) and human Suz12 (accession number NM_015355, amino acids 2-end with an N-terminal His tag, molecular weight 87 kDa).

Target Details

Target: EZH2

Target Details

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Alternative Name:	EZH2 (EZH2 Products)
Background:	EZH2, EED and Suz12 are present in the PRC protein complexes that function as mediators of
	epigenetic transcriptional silencing. EZH2 - (Enhancer of Zeste homolog 2, also designated
	Enx1 and SETDB1) is a human homolog of the Drosophila Enhancer of Zeste protein. It
	contains a SET domain that catalyzes the mono-, di- and trimethylation of Histone H3 Lys27.
	Polycomb group proteins repress gene expression by binding to chromatin and locally altering
	chromatin structure. Deregulation of EZH2 is linked to a variety of cancers.
Pathways:	Retinoic Acid Receptor Signaling Pathway, Regulation of Muscle Cell Differentiation
Application Details	
Application Notes:	Recombinant EZH2 protein complex is suitable for use in histone methyltransferase assays.
	This protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity
	profiling. Specific Activity: 0.08 pmol/min/µg. Assay conditions: Prepare a 50 µL reaction mix
	(20 mM phosphate pH 7.4, 0.05 % Tween-20, 40 μ M S-adenosylmethionine, and 250-2000 ng
	enzyme complex) and add to substrate-coated wells with the substrate on a Thermo
	Neutravidin black plate. Incubate for 1 hr. Add anti-methyl histone H3K27 antibody and incubate
	1hr. Next, incubate 1h with the HRP-labeled secondary antibody followed by chemiluminescent
	detection.
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-80 °C
Storage Comment:	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to
	prevent degradation.



Lane 1:

Lane 2:

EZH2/EED/SUZ12

MW: EZH2:86 kDa

Protein Marker

SUZ12:87kDa

EED:51kDa Purity: ≥82%

3.9 µg

Activity Assay

Image 1.



Western Blotting

Image 2.