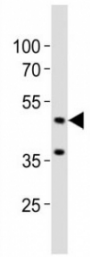
Eed Antibody (F53077)

Catalog No.	Formulation	Size
F53077-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53077-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Predicted Reactivity	Human, Bovine, Chicken
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q921E6
Applications	Western blot: 1:1000
Limitations	This Eed antibody is available for research use only.



Western blot analysis of lysate from mouse brain tissue lysate using Eed antibody diluted at 1:1000. Predicted molecular weight: 50 kDa (isoform 1), 53 kDa (isoform 2), 46 kDa (isoform 3).

Description

Polycomb group (PcG) protein. Component of the PRC2/EED- EZH2 complex, which methylates 'Lys-9' and 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Also recognizes 'Lys-26' trimethylated histone H1 with the effect of inhibiting PRC2 complex methyltransferase activity on nucleosomal histone H3 'Lys-27', whereas H3 'Lys-27' recognition has the opposite effect, enabling the propagation of this repressive mark (By similarity). The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two

epigenetic repression systems (By similarity). Genes repressed by the PRC2/EED-EZH2 complex include HOXA7, HOXB6 and HOXC8. Plays a role in X chromosome inactivation (XCI), in which one of the two X chromosomes in female mammals is transcriptionally silenced to equalize X-linked gene dosage with XY males. Required for stable maintenance of XCI in both embryonic and extraembryonic tissues. May prevent transcriptional activation of facultative heterochromatin during differentiation. Required for development of secondary trophoblast giant cells during placental development. May regulate hippocampal synaptic plasticity in the developing brain.

For an alternative reagent with knockout validation and broader experimental characterization, explore our EED Antibody targeting a core regulatory component of Polycomb Repressive Complex 2.

Application Notes

Titration of the Eed antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Eed antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 40-74 amino acids from the N-terminal region of mouse Eed.

Storage

Aliquot the Eed antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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