

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse EED in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human EED Ser2-Cys150 Accession # O75530
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

EED (Embryonic ectoderm development; also WAIT-1) is a 51 kDa member of the WD repeat ESC family of proteins. It is widely expressed, and constitutes part of both the PRC1 and PRC2 nuclear complexes. PRC1 contains EED, Suz12, RbAp46 and Ezh1 and is found in nonproliferating tissue. PRC2 differs only by the presence of Ezh2 and is found in proliferating tissues. Both complexes methylate histone H3 and act as gene repressors. Human EED is 441 amino acids in length. It contains three phosphorylation sites (Ser34; Thr55; Thr57) followed by seven WD40 domains (aa 91-441). There are two alternate start sites, one at Met15, and another that is 94 aa upstream of the standard site, begins with a Val and generates a 69 kDa isoform. A third isoform variant shows an insertion of 25 aa after Ser323, while a fourth variant shows a premature truncation after Lys400. Human and mouse EED are identical in amino acid sequence.

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