

## Rabbit EED Polyclonal Antibody | anti-EED antibody

EED Antibody

|                               |                       |                                        |                                                                  |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA327009</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|------------------------------------------------------------------|

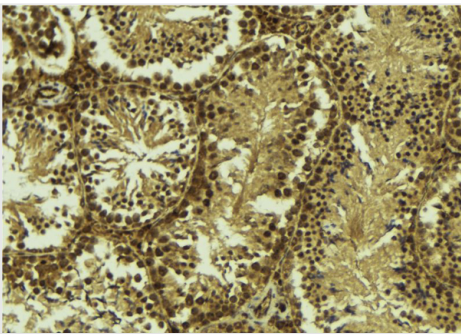
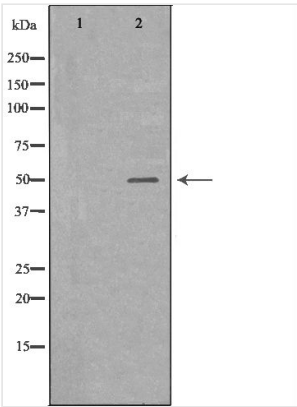
### PRODUCT SYNONYMS

EED; Polyclonal Antibody; EED Antibody; eed; EED protein; mouse; homolog of; EED\_HUMAN; Embryonic ectoderm development; Embryonic ectoderm development isoform a; Embryonic ECTODERM development protein homolog; Embryonic ectoderm development protein; hEED; OTTHUMP00000235483; OTTHUMP00000235484; OTTHUMP00000235485; Polycomb protein eed; WAIT 1; WAIT-1; WAIT1; WD protein associating with integrin cytoplasmic tails 1; anti-EED antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                              |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                       |
| Reactivity                                    | Human, Mouse, Rat                                                                                                                                                                                                                            |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                   |
| Isotype                                       | IgG                                                                                                                                                                                                                                          |
| Specificity                                   | EED antibody detects endogenous levels of total EED                                                                                                                                                                                          |
| Purity/Purification                           | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                |
| Form/Format                                   | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                                                                                                                                                       |
| Sequence Length                               | 466                                                                                                                                                                                                                                          |
| Applicable Applications for anti-EED antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                         |
| Immunogen                                     | A synthetic peptide of human EED                                                                                                                                                                                                             |
| Subcellular Location                          | Nucleus. Chromosome. Transiently colocalizes with XIST at inactive X chromosomes.                                                                                                                                                            |
| Tissue Specificity                            | Expressed in brain, colon, heart, kidney, liver, lung, muscle, ovary, peripheral blood leukocytes, pancreas, placenta, prostate, spleen, small intestine, testis, thymus and uterus. Appears to be overexpressed in breast and colon cancer. |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                 |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                            |

IMAGES



**IHC (Immunohistochemistry)**  
AAA327009 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**  
Western blot analysis of extracts of virous, using EED antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EED antibody

**Description:** This gene encodes a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein interacts with enhancer of zeste 2, the cytoplasmic tail of integrin beta7, immunodeficiency virus type 1 (HIV-1) MA protein, and histone deacetylase proteins. This protein mediates repression of gene activity through histone deacetylation, and may act as a specific regulator of integrin function. Two transcript variants encoding distinct isoforms have been identified for this gene.

**Function:** 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. The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1 and CDKN2A.

**Subunit Structure:** Component of the PRC2/EED-EZH2 complex, which includes EED, EZH2, SUZ12, RBBP4 and RBBP7 and possibly AEBP2. The minimum components required for methyltransferase activity of the PRC2/EED-EZH2 complex are EED, EZH2 and SUZ12. Component of the PRC2/EED-EZH1 complex, which includes EED, EZH1, SUZ12, RBBP4 and AEBP2. The PRC2 complex may also interact with DNMT1, DNMT3A, DNMT3B and PHF1 via the EZH2 subunit and with SIRT1 via the SUZ12 subunit. Interacts with HDAC, HDAC2, histone H1 and YY1. May interact with ITGA4, ITGAE and ITGB7. Interacts with CDYL. Interacts with ARNTL/BMAL1. Interacts with KMT2A/MLL1 (By similarity).

**Post-translational Modifications:** Methylated. Binding to histone H1 'Lys-26' promotes mono-, di-, and trimethylation of internal lysines.

**Similarity:** The WD repeat domain mediates recognition of trimethylated histone peptides at the consensus sequence Ala-Arg-Lys-Ser. This is achieved through an aromatic cage encircling the methyllysine, and involving Phe-97, Tyr-148 and Tyr-365. Belongs to the WD repeat ESC family.

NCBI AND UNIPROT INFORMATION

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| NCBI GI #                 | 808175997                                                      |
| NCBI GeneID               | 8726                                                           |
| NCBI Accession #          | NP_001294936.1                                                 |
| NCBI GenBank Nucleotide # | NM_001308007.1                                                 |
| UniProt Accession #       | O75530; O00149; Q6NTH2; Q7LDA5; Q7LDG8; Q86VV2; Q9UNY7; A8K7V5 |
| Molecular Weight          | Observed: 50 kDa<br>Predicted: 51 kDa                          |
| NCBI Official Full Name   | polycomb protein EED isoform c                                 |

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI Official Synonym Full Names | embryonic ectoderm development |
| NCBI Official Symbol             | EED                            |
| NCBI Official Synonym Symbols    | HEED; COGIS; WAIT1             |
| NCBI Protein Information         | polycomb protein EED           |
| UniProt Protein Name             | Polycomb protein EED           |
| UniProt Gene Name                | <b>EED</b>                     |
| UniProt Synonym Gene Names       | WAIT-1                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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