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Anti-EED Picoband Antibody

Catalog # ABO12267

Specification

Anti-EED Picoband Antibody - Product Information

Application	**WB**
Primary Accession	O75530
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Polycomb protein EED(EED) detection. Tested with WB in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-EED Picoband Antibody - Additional Information

Gene ID 8726

Other Names
Polycomb protein EED, hEED, WD protein associating with integrin cytoplasmic tails 1, WAIT-1, EED

Calculated MW
50198 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
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. .

Protein Name
Polycomb protein EED

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human EED recombinant protein (Position: M256-R441). Human EED shares 100% amino acid (aa) sequence identity with mouse EED.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the WD repeat ESC family.

Anti-EED Picoband Antibody - Protein Information

Name EED (HGNC:3188)

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.

Cellular Location
Nucleus. Chromosome. Note=Transiently colocalizes with XIST at inactive X chromosomes

Tissue Location
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

Anti-EED Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-EED Picoband Antibody - Images

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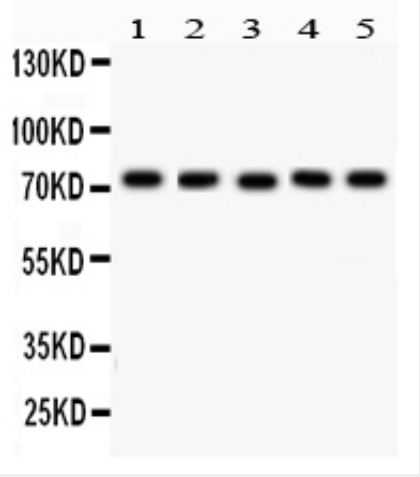

Anti- EED Picoband antibody, ABO12267, Western blottingAll lanes: Anti EED (ABO12267) at 0.5ug/mlLane 1: Rat Cardiac Muscle Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Rat Liver Tissue Lysate at 50ugLane 4: Rat Lung Tissue Lysate at 50ugLane 5: SKOV Whole Cell Lysate at 40ugPredicted bind size: 51KDObserved bind size: 72KD

Anti-EED Picoband Antibody - Background

Polycomb protein EED is a protein that in humans is encoded by the EED gene. It is 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 Î²7, immunodeficiency virus type 1 (HIV-1) MA protein, and histone deacetylase proteins. Furthermore, 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.