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EED Polyclonal Antibody

Catalog Number **PA5-34430**

Product data sheet

Details	
Size	100 µg
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	An 18 amino acid synthetic peptide near the amino terminus of human EED
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.02% sodium azide
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C

Species Reactivity	
Species reactivity	Human, Mouse, Rat
Published species	Not Applicable

Tested Applications	Dilution *
ChIP assay (ChIP)	2.5 µg/10^6 cells
Immunohistochemistry (IHC)	20 µg/mL
Western Blot (WB)	2 µg/mL
Immunocytochemistry (ICC/IF)	20 µg/mL

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

A suggested positive control is human heart tissue lysate. PA5-34430 can be used with blocking peptide PEP-1472.

Background/Target Information

The EED protein (WAIT-1 or WD protein associated with integrin cytoplasmic tails-1), also called embryonic ectoderm development, is a member of the superfamily of WD-40 repeat proteins and widely conserved polycomb group (PcG) family of proteins. The polycomb group (PcG) is a large and evolutionarily conserved set of genes whose products act in multimeric complexes to modify histones, which are then thought to cause stable and heritable states of transcriptional repression. EED shuttles between the nucleus and the plasma membrane and can interact with the cytoplasmic tail of integrin Beta-7 subunit. EED exerted an antiviral activity at the late stage of HIV-1 replication.

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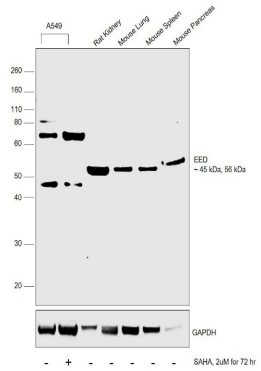
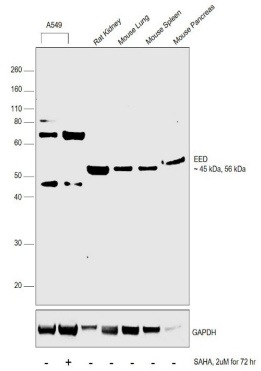
Product Images For EED Polyclonal Antibody



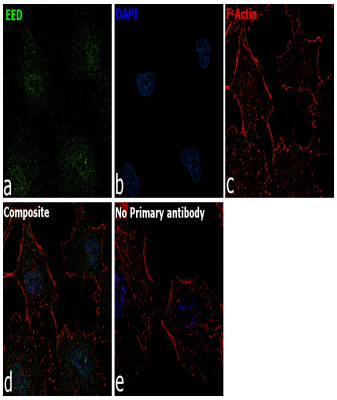
EED Antibody (PA5-34430) in WB

Western blot was performed using Anti-EED Polyclonal Antibody (Product # PA5-34430) and a 45kDa band corresponding to human EED isoform and 56kDa band corresponding to mouse EED isoform was observed across cell lines and tissues tested. In addition to this there was an increase in the expression of EED proteins upon SAHA treatment in A549 cells. Whole cell extracts (30 µg lysate) of A549 (Lane 1), A549 treated with SAHA (2uM for 72hr) (Lane 2), tissue extracts (30 µg lysate) of Rat Kidney (Lane 3), Mouse Lung (Lane 4), Mouse Spleen (Lane 5) and Mouse Pancreas (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence Goat Anti-Rabbit IgG Secondary Antibody, HRP conjugate (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005)..



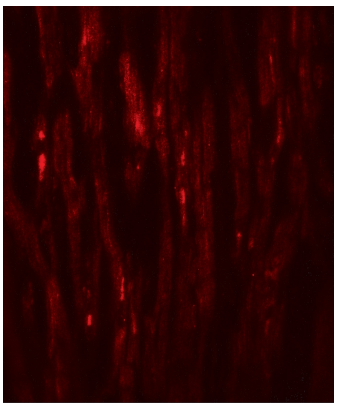
EED Antibody (PA5-34430)

Altered expression of EED protein upon cell treatment demonstrated antibody specificity. A treatment mediated decrease in the expression of EED was observed in A549 cells treated with SAHA using EED Polyclonal Antibody (Product # PA5-34430). {TM}



EED Antibody (PA5-34430) in ICC/IF

Immunofluorescence analysis of EED was performed using 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with EED Rabbit Polyclonal Antibody (Product # PA5-34430) at 20 microgram/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing Nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification..



EED Antibody (PA5-34430) in IHC

Immunofluorescence of EED in human heart tissue with EED Polyclonal Antibody (Product # PA5-34430) at 20 µg/mL.

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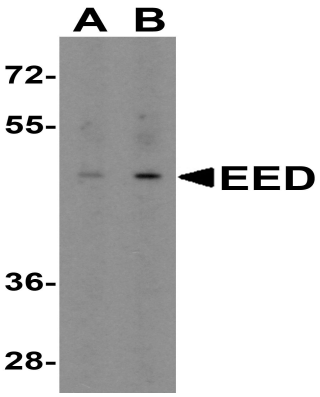
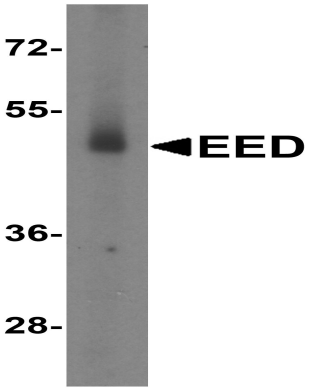


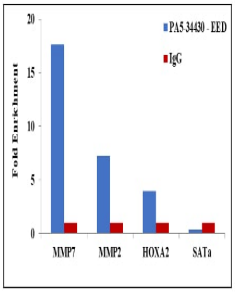
EED Antibody (PA5-34430) in WB

Western Blot analysis of EED in human heart tissue lysate with EED Polyclonal Antibody (Product # PA5-34430) at (A) 1 and (B) 2 µg/mL.



EED Antibody (PA5-34430) in WB

Western Blot analysis of EED expression in human testis tissue lysate with EED Polyclonal Antibody (Product # PA5-34430) at 2 µg/mL.



EED Antibody (PA5-34430) in ChIP

Chromatin Immunoprecipitation (ChIP) assay of endogenous EED protein using Anti-EED Antibody: ChIP was performed using Anti-EED Rabbit Polyclonal Antibody (Product # PA5-34430, 5 µg) on sheared chromatin from A549 cells using the MAGnify ChIP System kit (Product # 49-2024). Normal Rabbit IgG was used as a negative IP control. The purified DNA was analyzed by qPCR using primers binding to MMP7 promoter, MMP2 and HOXA2 transcriptional start sites, and SAT alpha satellite repeats. Data is presented as fold enrichment of the antibody signal versus the negative control IgG using the comparative CT method.

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