



# EID-1 Polyclonal Antibody

<b>Catalog No</b>	BYab-01687
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	EID1
<b>Protein Name</b>	EP300-interacting inhibitor of differentiation 1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human EID1. AA range:71-120
<b>Specificity</b>	EID-1 Polyclonal Antibody detects endogenous levels of EID-1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	EID1; C15orf3; CRI1; RBP21; PNAS-22; PTD014; EP300-interacting inhibitor of differentiation 1; 21 kDa pRb-associated protein; CREBBP/EP300 inhibitory protein 1; E1A-like inhibitor of differentiation 1; EID-1
<b>Observed Band</b>	21kD
<b>Cell Pathway</b>	Nucleus . Cytoplasm . May shuttle between nucleus and cytoplasm. .
<b>Tissue Specificity</b>	Widely expressed. Most abundantly expressed in heart, skeletal muscle, pancreas, brain and testis. Expressed at much lower levels in placenta and peripheral blood leukocyte. Barely detectable in lung. Also weakly expressed in lung carcinoma A-549 and various leukemia cell lines.
<b>Function</b>	developmental stage:Expression decreased with development in ventricular tissue while remaining highly expressed in adult atrial tissue. In primary cultures of human skeletal myocytes, expression decreased during myogenic differentiation (at protein level).,function:Interacts with RB1 and EP300 and acts as a repressor of MYOD1 transactivation. Inhibits EP300 and CBP histone acetyltransferase

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activity. May be involved in coupling cell cycle exit to the transcriptional activation of genes required for cellular differentiation. May act as a candidate coinhibitory factor for NR0B2 that can be directly linked to transcription inhibitory mechanisms.,induction:Down-regulated in differentiating U937 leukemia cells.,miscellaneous:Inhibition of MYOD1 may be partly due to the ability of EID1 to bind and inhibit EP300 histone acetyltransferase activity.,PTM:Ubiquitinated in U-2OS osteosarcoma cells

**Background**

developmental stage:Expression decreased with development in ventricular tissue while remaining highly expressed in adult atrial tissue. In primary cultures of human skeletal myocytes, expression decreased during myogenic differentiation (at protein level),function:Interacts with RB1 and EP300 and acts as a repressor of MYOD1 transactivation. Inhibits EP300 and CBP histone acetyltransferase activity. May be involved in coupling cell cycle exit to the transcriptional activation of genes required for cellular differentiation. May act as a candidate coinhibitory factor for NR0B2 that can be directly linked to transcription inhibitory mechanisms.,induction:Down-regulated in differentiating U937 leukemia cells.,miscellaneous:Inhibition of MYOD1 may be partly due to the ability of EID1 to bind and inhibit EP300 histone acetyltransferase activity.,PTM:Ubiquitinated in U-2OS osteosarcoma cells and is rapidly degraded by proteasome as cells exit the cell cycle exit.,subcellular location:May shuttle between nucleus and cytoplasm.,subunit:Interacts via its LXCXE motif with the entire pocket region of RB1. Interacts with EP300, NR0B2 and TRIM27.,tissue specificity:Widely expressed. Most abundantly expressed in heart, skeletal muscle, pancreas, brain and testis. Expressed at much lower levels in placenta and peripheral blood leukocyte. Barely detectable in lung. Also weakly expressed in lung carcinoma A549 and various leukemia cell lines.,

**matters needing attention**

Avoid repeated freezing and thawing!

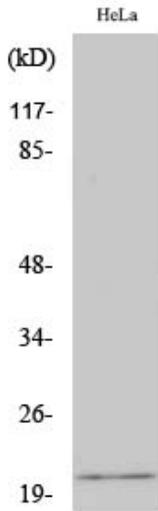
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

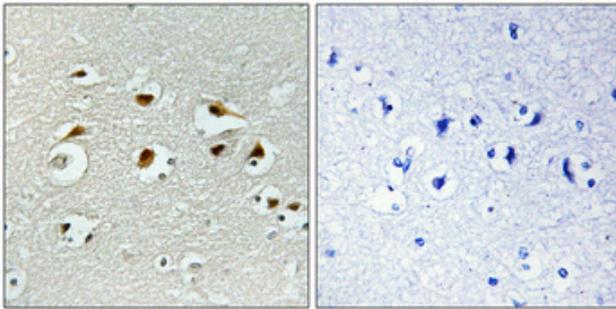
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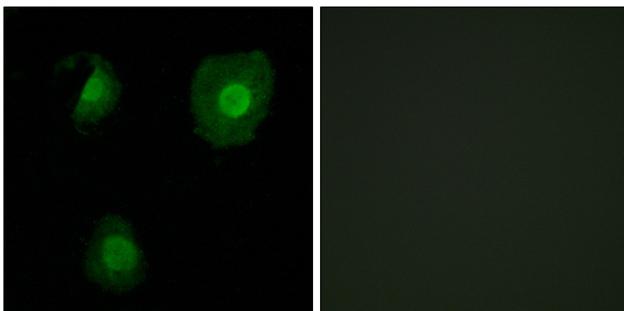
## Products Images



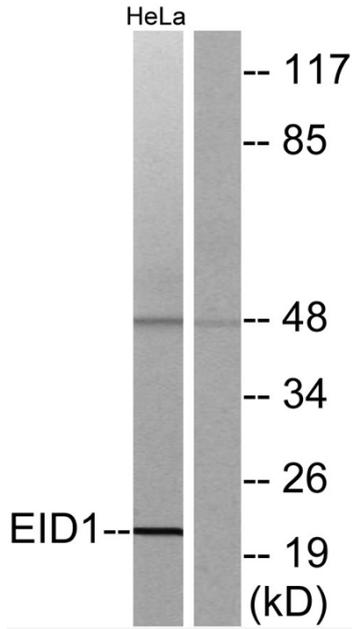
Western Blot analysis of various cells using EID-1 Polyclonal Antibody



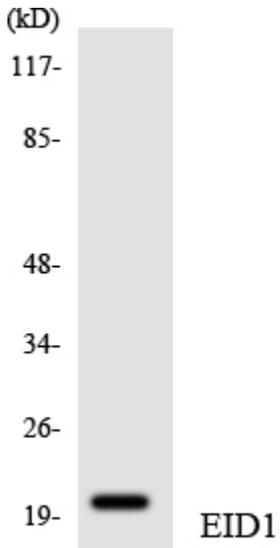
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of A549 cells, using EID1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using EID1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using EID1 antibody.