SunLong Biotech Co.,LTD
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Rabbit Anti-Deltex 1 antibody

SL0399R

Product Name	Deltex 1
Chinese Name	DTX1 抗体
Alias	Deltex protein 1; Deltex; Deltex-1; Deltex1; Dtx1; FXI-T1; Fxit 1; Fxit1; mDTX1; DTX1_HUMAN.
Research Area	Cell biology immunology Developmental biology Neurobiology Stem cells Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat, (predicted: Cow,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	67kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Deltex-1: 351-450/620
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	Deltex is a RING finger ubiquitin ligase which is conserved from Drosophila to

Detail

Humans and is a regulator of Notch signaling pathway. Deltex regulates both B-cell lineage and splenic marginal-zone B-cell commitment. Deltex is implicated in neurogenesis, lymphogenesis and myogenesis as well as marginal zone B cell differentiation.

Function:
Functions as an ubiquitin ligase protein in vivo, mediating ubiquitination and promoting degradation of MEKK1, suggesting that it may regulate the Notch pathway via some ubiquitin ligase activity (By similarity). Regulator of Notch signaling, a signaling pathway involved in cell-cell communications that regulates a broad spectrum of cell-fate determinations. Mainly acts as a positive regulator of Notch, but it also acts as a negative regulator, depending on the developmental and cell context. Mediates the antineural activity of Notch, possibly by inhibiting the transcriptional activation mediated by MATCH1. Involved in neurogenesis, lymphogenesis and myogenesis, and may also be involved in MZB (Marginal zone B) cell differentiation. Promotes B-cell development at the expense of T-cell development, suggesting that it can antagonize NOTCH1.

Subunit:
Homodimer. May form a heterodimer with other members of the Deltex family. Interacts with NOTCH1 via its N-terminus region and EIF3F, the interaction is required for NOTCH1 deubiquitination. Interacts with EP300. Forms a heterodimer with BBAP; the heterodimerization leading to an increase of in vitro ubiquitin ligase activity. Interacts with ITCH.

Subcellular Location:
Cytoplasm. Nucleus. Note=Predominantly cytoplasmic. Associates with endocytic vesicles. Partially nuclear.

Tissue Specificity:
Widely expressed. Strongly expressed in blood vessel. Also expressed in embryonic nervous system, pancreas, lung, adrenal gland, digestive tube and muscles. Expressed in MZB cells and developing B- and T-cells.

Post-translational modifications:
Ubiquitinated; undergoes 'Lys-29'-linked polyubiquitination catalyzed by ITCH.

Similarity:
Belongs to the Deltex family.
Contains 1 RING-type zinc finger.
Contains 2 WWE domains.

SWISS:
Q86Y01

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Gene ID:
1840

Database links:

Entrez Gene: 1840 Human

Entrez Gene: 14357 Mouse

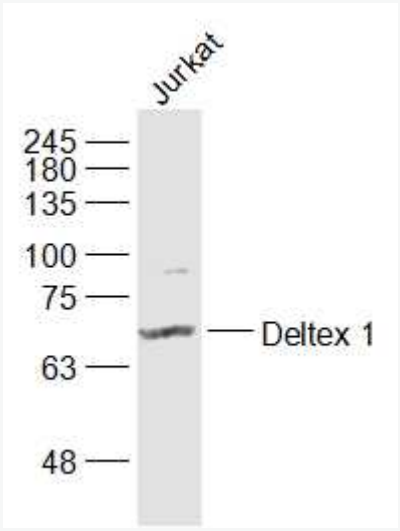
Omim: 602582 Human

SwissProt: Q86Y01 Human

SwissProt: Q61010 Mouse

Deltex1 用于老年滞呆、神经退行性变的研究。

Product Picture



Sample:

Jurkat(Human) Cell Lysate at 30 ug

Primary: Anti-Deltex 1 (SL0399R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 67 kD

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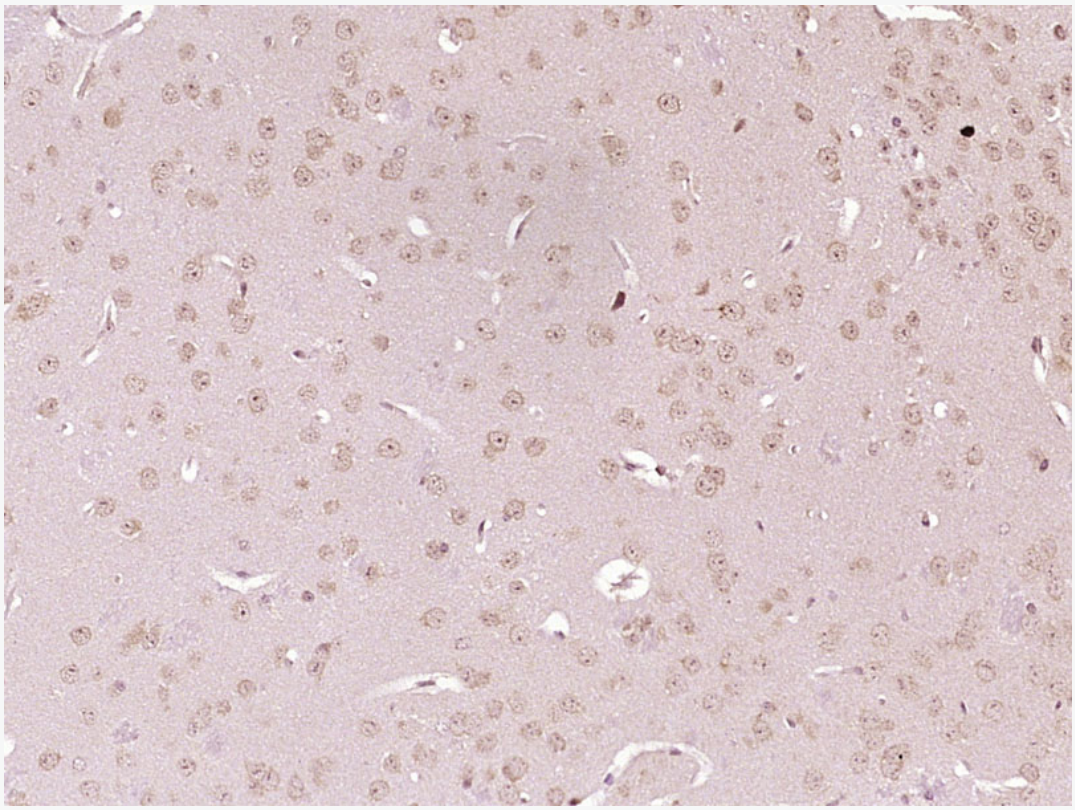
Observed band size: 67 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Deltex 1) Polyclonal Antibody, Unconjugated (SL0399R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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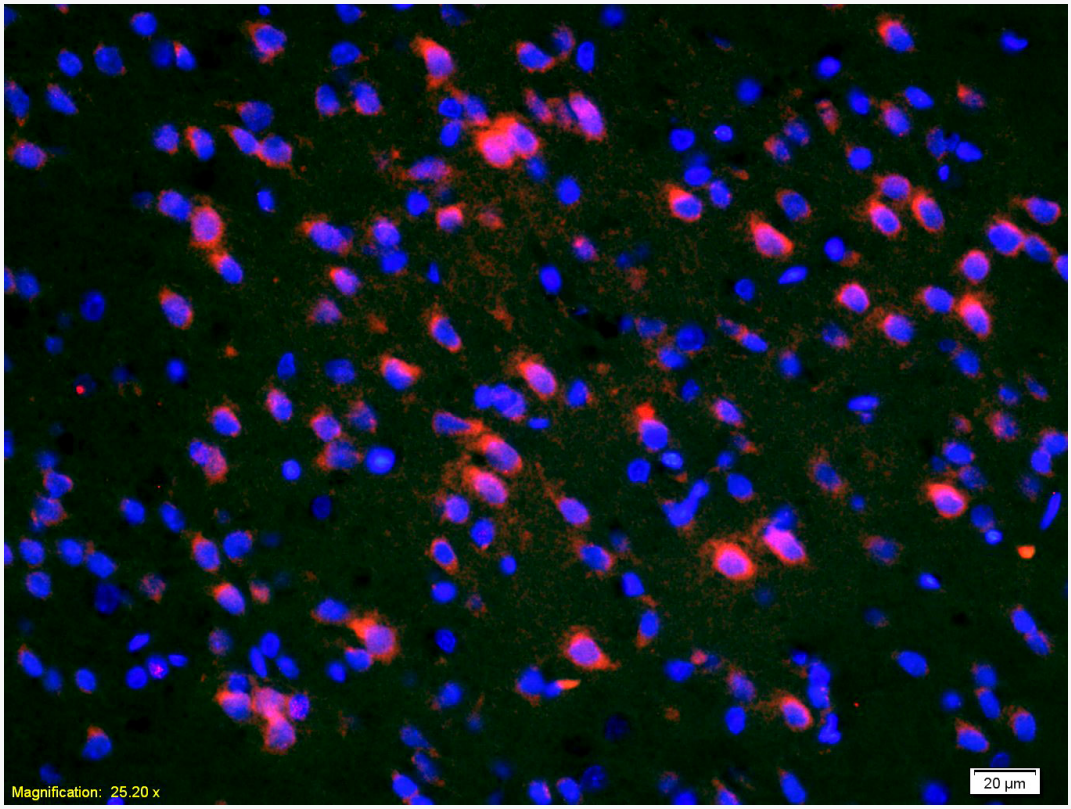

Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-Deltex 1 Polyclonal Antibody, Unconjugated(SL0399R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei