

Rabbit Anti-NECAB1 antibody

SL11978R

Product Name	NECAB1
Chinese Name	神经元钙结合相关蛋白 EFCBP1 抗体
Alias	EF-CBP1; EF-hand calcium-binding protein 1; EFCBP1; N-terminal EF-hand calcium-binding protein 1; NECA1_HUMAN; Necab1; Neuronal calcium-binding protein 1; STIP-1.
Research Area	Cell biology Neurobiology Signal transduction Binding protein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Dog,Pig,Horse,Rabbit)
Applications	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	41kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NECAB1/EF-CBP1: 51-150/351
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°C. 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

Members of the EF-CBP (N-terminal EF-hand calcium binding protein)/NECAB (neuronal calcium-binding protein) family participate in neuronal calcium signaling. EF-CBP1 (N-terminal EF-hand calcium binding protein 1), also known as STIP-1 or neuronal calcium-binding protein 1 (NECAB1), is a 351 amino acid cytoplasmic protein that contains one antibiotic biosynthesis monooxygenase (ABM) domain and two EF-hand domains. Expressed in brain, EF-CBP1 interacts with copine 6 and Syntaxin, and exists as two alternatively spliced isoforms. The gene encoding EF-CBP1 maps to human chromosome 8, which consists of nearly 146 million base pairs, encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

Function:

Expressed in brain (at protein level).

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Product Detail Expressed in brain

Similarity:

Contains 1 ABM domain.

Contains 2 EF-hand domains.

SWISS:

Q8N987

Gene ID:

64168

Database links:

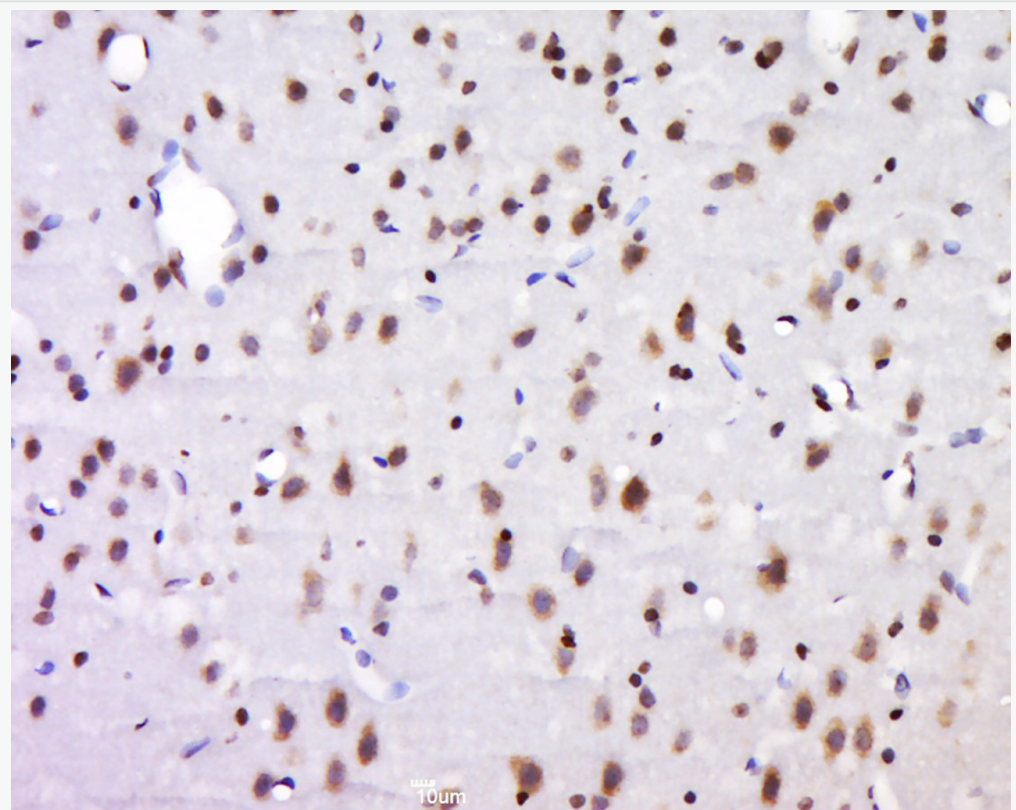
[Entrez Gene: 64168](#) Human

[SwissProt: Q8N987](#) Human

[Unigene: 642655](#) Human

[Unigene: 719466](#) Human

**Product
Picture**



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;

Block endogenous peroxidase by 3% Hydrogen peroxide for 30min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-NECAB1 Polyclonal Antibody, Unconjugated(SL11978R)

1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining