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EF-CBP2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59104

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q7Z6G3
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43194

Additional Information

Gene ID	54550
Other Names	N-terminal EF-hand calcium-binding protein 2, EF-hand calcium-binding protein 2, Neuronal calcium-binding protein 2, Synaptotagmin-interacting protein 2, Stip-2, NECAB2, EFCBP2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NECAB2
Synonyms	EFCBP2
Function	May act as a signaling scaffold protein that senses intracellular calcium. Can modulate ligand-induced internalization of ADORA2A and coupling efficiency of mGluR5/GRM5; for both receptors may regulate signaling activity such as promoting MAPK1/3 (ERK1/2) activation.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:F1LQY6, ECO:0000250|UniProtKB:Q91ZP9}. Cell projection, dendrite {ECO:0000250|UniProtKB:F1LQY6}. Cell projection, axon {ECO:0000250|UniProtKB:F1LQY6}. Cell membrane Note=Colocalizes with ADORA2A and/or mGluR5/GRM5 at the plasma membrane (PubMed:17689978, PubMed:19694902). Found in neuronal somata (PubMed:26843217). Detected in the cytoplasm of striatal neurons, at postsynaptic sites, filling dendritic shafts and spines, and at presynaptic sites, filling axon terminals (By similarity) {ECO:0000250|UniProtKB:F1LQY6,

ECO:0000269|PubMed:17689978, ECO:0000269|PubMed:19694902, ECO:0000269|PubMed:26843217}

Tissue Location Expressed in brain. Expressed in the spinal dorsal horn with especially strong expression in lamina IIi; found in excitory synaptic boutons and in ependymal cells (at protein level)

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