

Rabbit anti-Human CPLX2 Monoclonal Antibody | anti-CPLX2 antibody

Recombinant Anti-CPLX2 Antibody, Rabbit Monoclonal

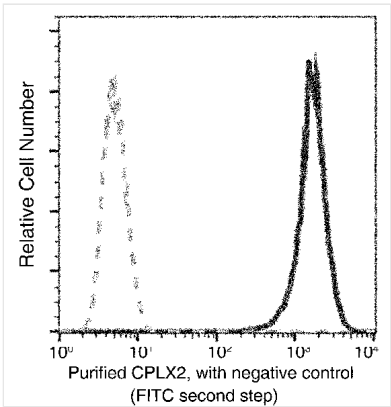
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255485	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

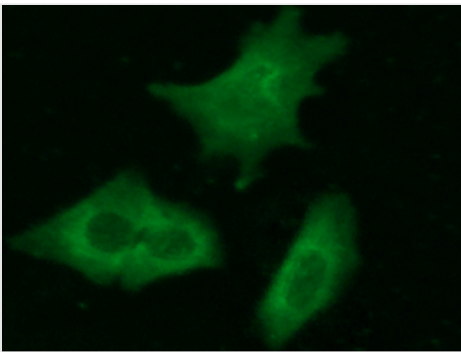
CPLX2; Monoclonal Antibody; Recombinant Anti-CPLX2 Antibody; Rabbit Monoclonal; Complexin-2/CPLX2 Antibody; Rabbit MAb; complexin 2; Anti-921-L Antibody; Anti-CPX-2 Antibody; Anti-CPX2 Antibody; Anti-Hfb1 Antibody; anti-CPLX2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	021
Specificity	Human Complexin-2/CPLX2
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CPLX2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Complexin-2/CPLX2 Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Complexin-2/CPLX2 (rh Complexin-2/CPLX2).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Human CPLX2 expression on SHSY5Y cells. The cells were treated according to manufacturer's manual (BD Pharmingen[®]), stained with purified anti-Human CPLX2, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)
Immunofluorescence staining of CPLX2 in SHSY5Y cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human CPLX2 monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green).

ADDITIONAL INFORMATION

Related Product Information for anti-CPLX2 antibody	Complexin-2 (CPLX2), a member of the complexin/synaphin family, is a soluble pre-synaptic protein believed to regulate neurotransmitter release from pre-synaptic terminals. Complexins are soluble proteins that regulate the activity of soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complexes necessary for vesicle fusion. Complexins are unable to bind to monomeric SNARE proteins but bind with high affinity to ternary SNARE complexes and with lower affinity to target SNARE complexes. Complexin 1 (CX1) and complexin 2 (CX2) are presynaptic proteins that modulate neurotransmitter release and are used as markers of inhibitory and excitatory synapses, respectively. CPLX2 is localized in pre-synaptic terminals in mature brain. The G71-P89 region of CPLX2 is essential and sufficient for preferential axonal distribution. CPLX2 participates in the Ca(2+)-sensitive regulatory pathway for zymogen granule exocytosis. Complexin-2 is a key player in normal neurological function, and its downregulation could lead to changes in neurotransmitter release sufficient to cause significant behavioural abnormalities such as depression. It is involved in synaptogenesis and the modulation of neurotransmitter release.
References	Lee HJ, et al. (2005) Association study of polymorphisms in synaptic vesicle-associated genes, SYN2 and CPLX2, with schizophrenia. Behav Brain Funct. 1: 15.Salimi K, et al. (2008) Regulation of complexin 1 and complexin 2 in the developing human prefrontal cortex. Synapse. 62(4): 273-82.Kataoka M, et al. (2009) Identification of a minimal segment of complexin II essential for preferential distribution in axons. J Neurochem. 108(5): 1109-15.Glynn D, et al. (2010) Clorgyline-mediated reversal of neurological deficits in a Complexin 2 knockout mouse. Hum Mol Genet. 19(17): 3402-12.Falkowski MA, et al. (2010) Complexin 2 modulates vesicle-associated membrane protein (VAMP) 2-regulated zymogen granule exocytosis in pancreatic acini. J Biol Chem. 285(46): 35558-66.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51316998
NCBI GeneID	10814
UniProt Accession #	Q6PUV4; O09056; Q13329; Q28184; Q52M15; Q64386; B2RAG2
Molecular Weight	134
NCBI Official Full Name	Complexin-2
NCBI Official Synonym Full Names	complexin 2
NCBI Official Symbol	CPLX2
NCBI Official Synonym Symbols	CPX2; Hfb1; 921-L; CPX-2
NCBI Protein Information	complexin-2; CPX II; synaphin 1; synaphin-1; complexin II

UniProt Protein Name	Complexin-2
UniProt Gene Name	CPLX2
UniProt Synonym Gene Names	CPX II
UniProt Entry Name	CPLX2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cplx2-antibody-clone-021-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/255485>