Anti-CD2AP Antibody

Alternative Names: CD2AP, CD2-associated protein, Adapter protein CMS, CMS,

Catalogue Number: AB19-10100-50ug

Size: 50 µg

Background Information

CD2-associated protein (CD2AP) is an adaptor protein, that regulates membrane trafficking. It has three N-terminal SH3 domains and a C-terminal proline-rich actin binding domain and coiled-coil. CD2AP is active in a range of tissues including the nervous system. Its role in the nervous system is however not fully understood, but it is known to play a role in amyloid precursor protein trafficking and processing [1] making it a relevant protein in Alzheimer's disease research. It is also involved in axonal growth [2] and maintenance of blood-brain barrier integrity [3]

Product Information

Antibody Type:	Polyclonal	**Host:**	Rabbit
Isotype:	IgG	**Species Reactivity:**	Human
Immunogen:	A synthetic peptide from the central region of human CD2AP		
Format:	50 µg in 50 µl PBS with 0.03% Proclin300, 50% glycerol, pH7.3.		
Storage Conditions:	Store at -20˚C. Avoid freeze / thaw cycles.		
Applications:	WB WB 1:5000-8000.		

Additional Information

Subcellular location:	Cytoplasm	**MW:**	71kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	23607	**Uniprot ID:**	Q9Y5K6

References

[1] F. Ubelmann, T. Burrinha, L. Salavessa, R. Gomes, C. Ferreira, N. Moreno, C. Guimas Almeida. Bin1 and CD2AP polarise the endocytic generation of beta-amyloid. EMBO Rep., 18 (2017), pp. 102-122
[2] B.J. Harrison, G. Venkat, J.L. Lamb, T.H. Hutson, C. Drury, K.K. Rau, M.B. Bunge, L.M. Mendell, F.H. Gage, R.D. Johnson, et al. The Adaptor Protein CD2AP Is a Coordinator of Neurotrophin Signaling-Mediated Axon Arbor Plasticity. J. Neurosci., 36 (2016), pp. 4259-4275.
[3] J.N. Cochran, T. Rush, S.C. Buckingham, E.D. Roberson. The Alzheimer's disease risk factor CD2AP maintains blood-brain barrier integrity. Hum. Mol. Genet., 24 (2015), pp. 6667-6674.