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ADD1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2026a

Product Information

Application	WB, IHC, E
Primary Accession	P35611
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5D4H1
Isotype	IgG1
Calculated MW	80955
Description	Adducins are a family of cytoskeleton proteins encoded by three genes (alpha, beta, gamma). Adducin is a heterodimeric protein that consists of related subunits, which are produced from distinct genes but share a similar structure. Alpha- and beta-adducin include a protease-resistant N-terminal region and a protease-sensitive, hydrophilic C-terminal region. Alpha- and gamma-adducins are ubiquitously expressed. In contrast, beta-adducin is expressed at high levels in brain and hematopoietic tissues. Adducin binds with high affinity to Ca(2+)/calmodulin and is a substrate for protein kinases A and C. Alternative splicing results in multiple variants encoding distinct isoforms; however, not all variants have been fully described.
Immunogen	Purified recombinant fragment of human ADD1 (AA: 1-193) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	118
Other Names	Alpha-adducin, Erythrocyte adducin subunit alpha, ADD1, ADDA
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ADD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADD1
Synonyms	ADDA
Function	Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to calmodulin.
Cellular Location	Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein; Cytoplasmic side
Tissue Location	Expressed in all tissues. Found in much higher levels in reticulocytes than the beta subunit

References

EMBO J. 2012 Mar 21;31(6):1453-66.Traffic. 2011 Oct;12(10):1327-40.

Images