

ADD1/ADD2 polyclonal antibody

Catalog # PAB27016 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of ADD1/ADD2 polyclonal antibody (Cat # PAB27016) in extracts from HeLa cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of ADD1/ADD2 polyclonal antibody (Cat # PAB27016) in paraffin-embedded human brain tissue.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ADD1/ADD2.
Immunogen	A synthetic peptide corresponding to human ADD1/ADD2.
Host	Rabbit
Theoretical MW (kDa)	80
Reactivity	Human, Mouse, Rat
Specificity	ADD1/ADD2 polyclonal antibody detects endogenous levels of ADD1/ADD2 protein.
Form	Liquid

Purification	Antigen affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunoprecipitor (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Immunofluorescence

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ADD1

Entrez GeneID	118
Protein Accession#	P35611 (Gene ID : 118); P35612 (Gene ID : 119)
Gene Name	ADD1
Gene Alias	ADDA, MGC3339, MGC44427
Gene Description	adducin 1 (alpha)

Omim ID	102680 145500
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000151164 OTTHUMP00000151165 erythrocyte adducin alpha subunit

Gene Info — ADD2

Entrez GeneID	119
Protein Accession#	P35611 (Gene ID : 118);P35612 (Gene ID : 119)
Gene Name	ADD2
Gene Alias	ADDB
Gene Description	adducin 2 (beta)
Omim ID	102681
Gene Ontology	Hyperlink
Gene Summary	Adducins are heteromeric proteins composed of different subunits referred to as adducin alpha, beta and gamma. The three subunits are encoded by distinct genes and belong to a family of membrane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sites of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously expressed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associated with the regulation of blood pressure in an animal model of hypertension. Heterodimers consisting of alpha and gamma subunits have also been described. Structurally, each subunit is comprised of two distinct domains. The amino-terminal region is protease resistant and globular in shape, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphorylation sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Various adducin beta mRNAs, alternatively spliced at 3'end and/or internally spliced and encoding different isoforms, have been described. The functions of all the different isoforms are not known. [provided by RefSeq]
Other Designations	Adducin-2 (beta) adducin 2 beta adducin

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- [Arterial Occlusive Diseases](#)
- [Arteriosclerosis](#)
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- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
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- [Carotid Artery Diseases](#)
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- [Cerebrovascular Disorders](#)
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