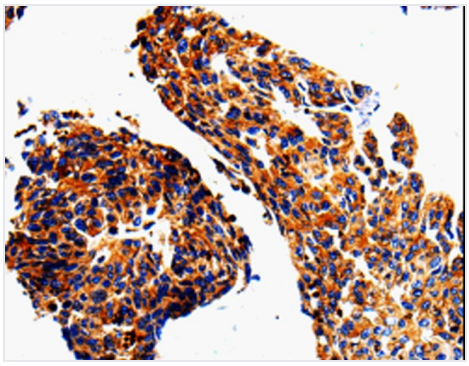
ADD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADD1, Polyclonal Antibody
Full Product Name	ADD1 Polyclonal Antibody
Product Gene Name	anti-ADD1 antibody
Product Synonym Names	ADDA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	1.2mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	73,333 Da
OMIM	102680
Immunogen	Recombinant protein of human ADD1
Buffer	PBS with 0.05% sodium azide, 50% glycerol, pH7.3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ADD1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-ADD1 antibody	IHC: 1:50-1:200
Related Product Information for anti-ADD1 antibody	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.
Other Notes	Small volumes of anti-ADD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ADD1 purchase	MBS2523514 is an antibody targeting ADD1. Also known as ADD1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-ADD1 antibody
Immunohistochemistry of paraffin-embedded Human lung cancer tissue using ADD1 Polyclonal Antibody at dilution 1:50

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADD1. It may not necessarily be applicable to this product.

NCBI GI #	557786217
NCBI GeneID	118
NCBI Accession #	NP_001273574.1
UniProt Secondary Accession #	Q13734; Q14729; Q16156; Q86XM2; Q9UJB6; A2A3N8; A2A3P0; B4DI79; D3DVR3; D3DVR4; D3DVR5
UniProt Related Accession #	P35611
GenBank Nucleotide #	NM_001286645.1
NCBI Official Full Name	alpha-adducin isoform e
NCBI Official Synonym Full Names	adducin 1 (alpha)
NCBI Official Symbol	ADD1
NCBI Official Synonym Symbols	ADDA
UniProt Protein Name	Alpha-adducin
UniProt Synonym Protein Names	Erythrocyte adducin subunit alpha
Protein Family	Adenosine deaminase
UniProt Gene Name	ADD1
UniProt Synonym Gene Names	ADDA
UniProt Entry Name	ADDA_HUMAN
NCBI Protein Information	alpha-adducin; erythrocyte adducin alpha subunit

UniProt Comments for ADD1	ADD1: a cytoskeletal protein that promotes the assembly of the spectrin-actin network. Adducin is a heterodimeric protein that consists of related subunits. 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. Adducin binds with high affinity to Ca(2+)/calmodulin and is a substrate for protein kinases A and C. Three alternatively-spliced isoforms have been described. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 4p16.3 Cellular Component: nucleoplasm; F-actin capping protein complex; intermediate filament cytoskeleton; focal adhesion; perinuclear region of cytoplasm; postsynaptic density; plasma membrane; dendritic spine; nucleus; cytosol Molecular Function: actin filament binding; calmodulin binding; protein homodimerization activity; spectrin binding; protein heterodimerization activity; T cell receptor binding; actin binding; structural molecule activity; transcription factor binding Biological Process: actin filament bundle formation; positive regulation of protein binding; hemoglobin metabolic process; in utero embryonic development; unfolded protein response; apoptosis; multicellular organism growth; cell morphogenesis; positive regulation of endocytosis; positive regulation of angiogenesis; unfolded protein response, activation of signaling protein activity; cellular protein metabolic process; homeostasis of number of cells within a tissue; erythrocyte differentiation; actin cytoskeleton organization and biogenesis; cell volume homeostasis; barbed-end actin filament capping; cell structure disassembly during apoptosis Disease: Hypertension, Essential
Research Articles on ADD1	**1.** When alpha-adducin complexes with sodium potassium ATPase in astrocytes, non-cell autonomous neurodegeneration is triggered.
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