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phospho-beta Adducin (Ser713) Rabbit pAb

Catalog # AP98518

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P35612
Other Accession	P35612
Predicted	Rat, Human, Mouse, Zebrafish, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80854
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human beta Adducin protein
Epitope Specificity	TP(p-S)FL
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the aldolase class II family. Adducinbn subfamily.
SUBUNIT	Heterodimer of an alpha and a beta subunit.
Post-translational modifications	The N-terminus is blocked.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Adducins are a family of cytoskeletal 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 Ca2+/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.

Additional Information

Gene ID	119
Other Names	ADDB_HUMAN; ADD2; Erythrocyte adducin subunit beta; ADDB; ADDB_MOUSE; Add97; ADDB_RAT; Adducin-63; adducin 2; adducin 2 (beta); beta-adducin; ADD2 | ADDB (phospho-S713); p-ADDB; phospho-ADDB; p-ADD2; ADD2 | ADDB (phospho-Ser713)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ADD2
Synonyms	ADDB
Function	Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to the erythrocyte membrane receptor SLC2A1/GLUT1 and may therefore provide a link between the spectrin cytoskeleton to the plasma membrane. Binds to calmodulin. Calmodulin binds preferentially to the beta subunit.
Cellular Location	Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein; Cytoplasmic side
Tissue Location	Expressed mainly in brain, spleen, kidney cortex and medulla, and heart. Also expressed in human umbilical vein endothelial cells, human vascular smooth muscle cells, kidney tubular cells and K-562 cell line.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.