

Adducin α/β (phospho Ser726/713) Polyclonal Antibody

Catalog No :	YP0854
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Adducin α/β
Gene Name :	ADD1/ADD2
Protein Name :	Alpha-adducin/Beta-adducin
Human Gene Id :	118/119
Human Swiss Prot No :	P35611/P35612
Mouse Gene Id :	11518/11519
Rat Gene Id :	24170/24171
Rat Swiss Prot No :	Q63028/Q05764
Immunogen :	The antiserum was produced against synthesized peptide derived from human ADD1 around the phosphorylation site of Ser726. AA range:688-737
Specificity :	Phospho-Adducin α/β (S726/713) Polyclonal Antibody detects endogenous levels of Adducin α/β protein only when phosphorylated at S726/713.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 80kD

Background :

adducin 1 (ADD1) Homo sapiens 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, Jul 2008],

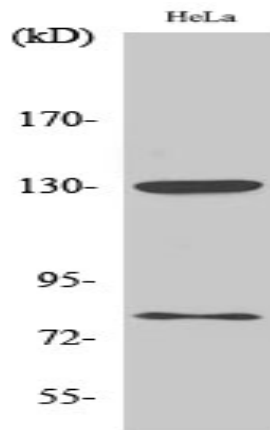
Function :

alternative products:Additional isoforms seem to exist, domain:Each subunit is comprised of three regions: a NH2-terminal protease-resistant globular head region, a short connecting subdomain, and a protease-sensitive tail region., function:Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to calmodulin., PTM:The N-terminus is blocked., similarity:Belongs to the aldolase class II family. Adducin subfamily., subunit:Heterodimer of an alpha and a beta subunit or an alpha and a gamma subunit. Binds ROCK1., tissue specificity:Expressed in all tissues. Found in much higher levels in reticulocytes than the beta subunit.,

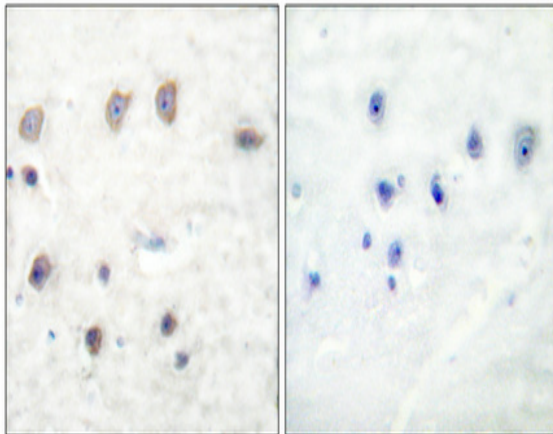
Subcellular Location : Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein; Cytoplasmic side.

Expression : Expressed in all tissues. Found in much higher levels in reticulocytes than the beta subunit.

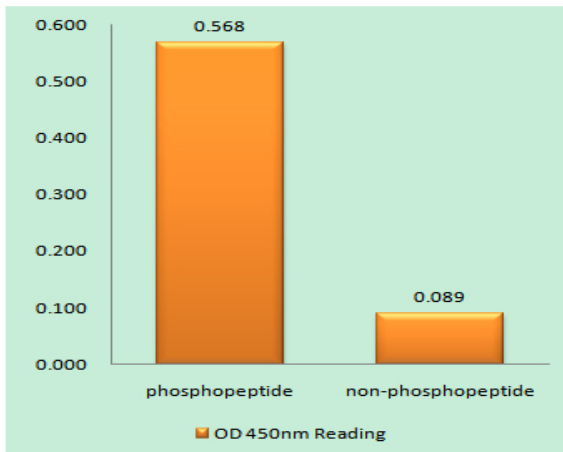
Products Images



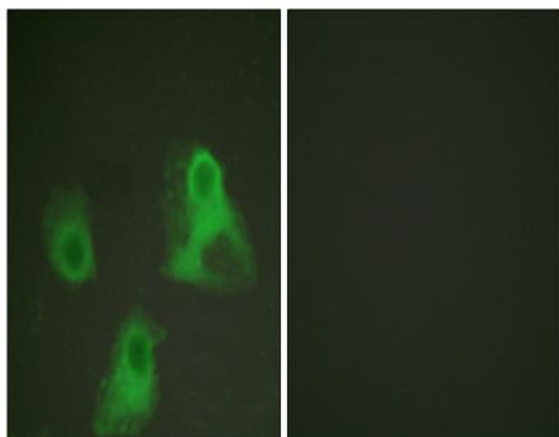
Western Blot analysis of various cells using Phospho-Adducin α/β (S726/713) Polyclonal Antibody diluted at 1:1000



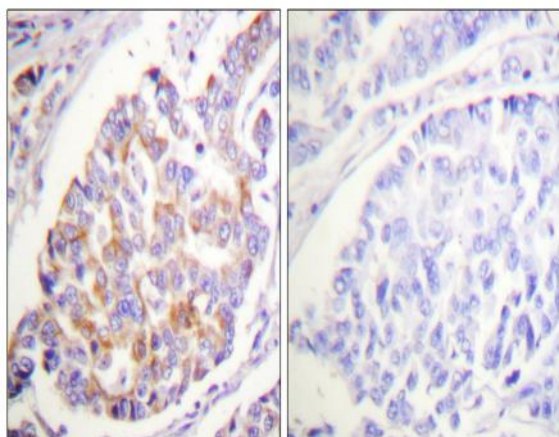
Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



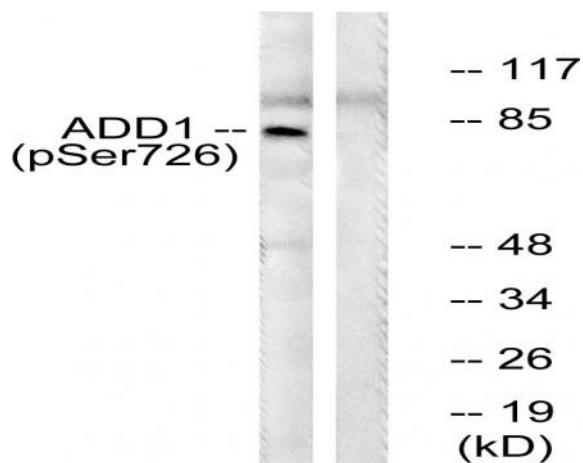
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ADD1 (Phospho-Ser726) Antibody



Immunofluorescence analysis of HeLa cells, using ADD1 (Phospho-Ser726) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ADD1 (Phospho-Ser726) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with Forskolin 40nM 30', using ADD1 (Phospho-Ser726) Antibody. The lane on the right is blocked with the phospho peptide.