



# Adducin $\alpha$ (phospho Thr445) Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-03057
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	IHC;IF;ELISA
<b>Gene Name</b>	ADD1
<b>Protein Name</b>	Alpha-adducin
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ADD1 around the phosphorylation site of Thr445. AA range:411-460
<b>Specificity</b>	Phospho-Adducin $\alpha$ (T445) Polyclonal Antibody detects endogenous levels of Adducin $\alpha$ protein only when phosphorylated at T445.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ADD1; ADDA; Alpha-adducin; Erythrocyte adducin subunit alpha
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein; Cytoplasmic side.
<b>Tissue Specificity</b>	Expressed in all tissues. Found in much higher levels in reticulocytes than the beta subunit.
<b>Function</b>	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.,
<b>Background</b>	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],

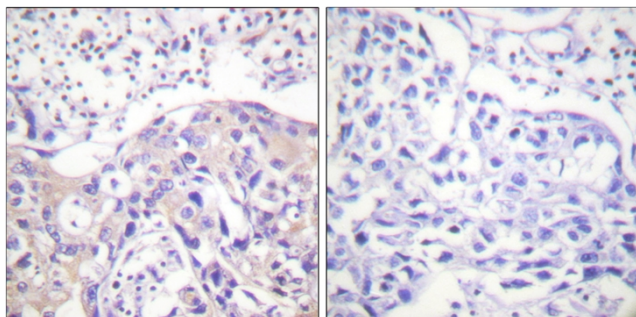
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ADD1 (Phospho-Thr445) Antibody. The picture on the right is blocked with the phospho peptide.