

## Adducin Beta Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP00261
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ADD2. AA range:471-520
<b>Mol wt</b>	80854
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IF, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Adducin beta Antibody
<b>Synonyms</b>	ADD2; ADDB; Beta-adducin; Erythrocyte adducin subunit beta

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

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. Alternatively spliced transcript variants have been described.

### Recommended Dilution

WB: 1: 500 - 1: 2000

IF: 1: 200 - 1: 1000

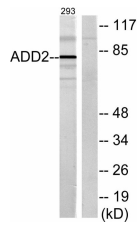
ELISA: 1: 5000

Not yet tested in other applications.

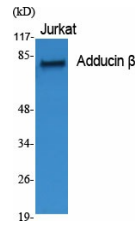
### Images



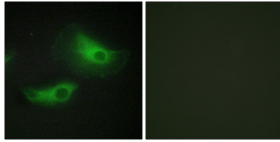
Western Blot analysis of 293 cells using Adducin  $\beta$  Polyclonal Antibody



Western blot analysis of lysates from 293 cells, using ADD2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Adducin  $\beta$  Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using ADD2 Antibody. The picture on the right is blocked with the synthesized peptide.

### Storage

-20°C for one year

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