

## AR- $\beta$ 2 (Phospho Ser355+Ser356) Rabbit pAb

CatalogNo: YP0712 Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat, Monkey

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 47kD (Observed)

#### Isotype

- IgG

### Storage

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

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Adrenergic Receptor B2 around the phosphorylation site of Ser355 and Ser356. AA range:331-380

## Specificity

This antibody detects endogenous levels of AR- $\beta$ 2 when dually phosphorylated at ser355 and ser356. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):YssNG

## Target Information

**Gene name** ADRB2

**Protein Name** Beta-2 adrenergic receptor

Organism	Gene ID	UniProt ID
Human	<a href="#">154</a> ;	<a href="#">P07550</a> ;
Mouse	<a href="#">11555</a> ;	<a href="#">P18762</a> ;
Rat		<a href="#">P10608</a> ;

### Cellular Localization

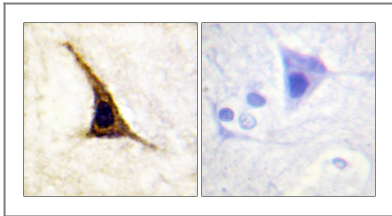
Cell membrane ; Multi-pass membrane protein . Early endosome . Golgi apparatus . Colocalizes with VHL at the cell membrane (PubMed:19584355). Activated receptors are internalized into endosomes prior to their degradation in lysosomes (PubMed:20559325). Activated receptors are also detected within the Golgi apparatus (PubMed:27481942) .

**Tissue specificity** Blood,Brain,Fetal brain,Heart,Leukocyte,Prostate,Thyroid,

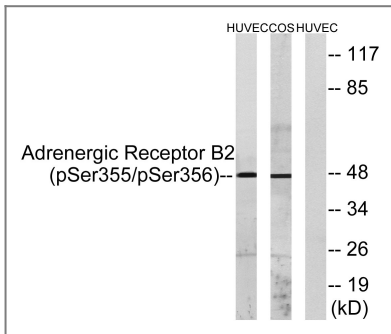
### Function

Disease:Polymorphic forms of ADRB2 could impart some form of nocturnal asthma.,Function:Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30-fold greater affinity than it does norepinephrine.,PTM:Palmitoylated; may reduce accessibility of Ser-345 and Ser-346 by anchoring Cys-341 to the plasma membrane. Agonist stimulation promotes depalmitoylation and further allows Ser-345 and Ser-346 phosphorylation.,PTM:Phosphorylated by PKA and BARK upon agonist stimulation, which mediates homologous desensitization of the receptor. PKA-mediated phosphorylation seems to facilitate phosphorylation by BARK. Phosphorylated upon DNA damage, probably by ATM or ATR.,PTM:Phosphorylation of Tyr-141 is induced by insulin and leads to supersensitization of the receptor.,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Binds SLC9A3R1 and GPRASP1.,

## Validation Data



Immunohistochemistry analysis of paraffin-embedded human brain, using Adrenergic Receptor B2 (Phospho-Ser355+Ser356) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with serum 20% 15' and COS7 cells treated with serum 20% 15', using Adrenergic Receptor B2 (Phospho-Ser355+Ser356) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:

**AR-β2 (Phospho Ser355+Ser356) Rabbit pAb**

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