

DATASHEET

Beta-2 Adrenergic Receptor (Phospho-S355/S356) Rabbit Polyclonal Antibody

CAT. NO. APA11031

KEY FEATURES

Target	Beta-2 Adrenergic Receptor (Phospho-S355/S356)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

G protein-coupled receptor for catecholamines that couples to both G(s) and G(i) proteins, activating bifurcated signaling pathways and G(i) proteins, activating bifurcated signaling pathways . ADRB2 binds epinephrine (Epi) with an approximately 30-fold greater affinity than norepinephrine (NE) . In the heart, Epi- and NE-activated ADRB2 induces rapid and slow cardiomyocyte contraction rate, respectively . Both NE and Epi promote coupling to G(s)/PKA pathway to regulate myocyte contraction rate . Epi also promotes ADRB2 coupling to G(i) proteins to exert cardioprotective effects especially in the conditions of hypoxia and oxidative stress through the G(i)/PI3K/Akt signaling pathway .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to Beta-2 Adrenergic Receptor (Phospho-S355/S356)
Specificity	Recognizes endogenous levels of Beta-2 Adrenergic Receptor protein only when phosphorylated at S355/S356.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S355/S356 of human Beta-2 Adrenergic Receptor protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 46 kD; Observed: 47; 68 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ADRB2R; B2AR; Beta-2 adrenergic receptor; Beta-2 adrenoreceptor; Beta-2 adrenoceptor
Gene Symbol	ADRB2
Entrez Gene	154(Human); 11555(Mouse)
SwissProt	P07550(Human); P18762(Mouse); P10608(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

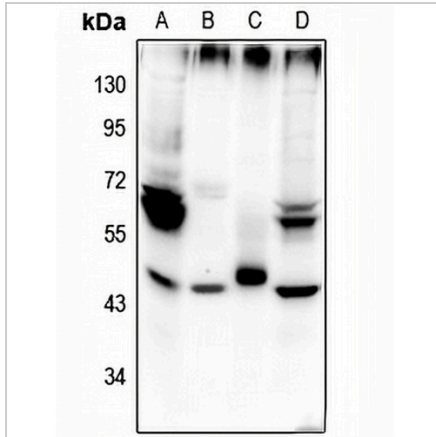
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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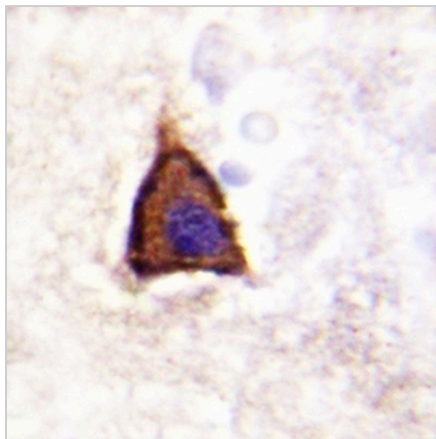
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Western blot analysis of Beta-2 Adrenergic Receptor (Phospho-S355/S356) expression in Hela (A), rat prostate (B), mouse lung (C), EC9706 (D) whole cell lysates. (Predicted band size: 46 kD; Observed band size: 47; 68 kD)



Immunohistochemical analysis of Beta-2 Adrenergic Receptor (Phospho-S355/S356) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.