



# Mouse Anti-Beta-adrenergic agonist monoclonal antibody, clone AR (CABT-L2564)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Specificity	Beta-adrenergic agonist
Immunogen	Beta-adrenergic agonist with carrier protein
Isotype	IgG
Source/Host	Mouse
Species Reactivity	N/A
Clone	AR
Purification	Purified from mouse ascites.
Conjugate	Unconjugated
Applications	ELISA, LFIA
Format	Liquid
Concentration	Lot specific
Size	1 mg
Buffer	PBS
Preservative	None
Storage	-20°C. Avoid Freeze/Thaw Cycles

## BACKGROUND

**Introduction**

Beta adrenergic agonists or beta agonists are medications that relax muscles of the airways, which widen the airways and result in easier breathing. They are a class of sympathomimetic agents which act upon the beta adrenoceptors. In general, pure beta-adrenergic agonists have the opposite function of beta blockers. Beta adrenoreceptor agonist ligands mimic the action of epinephrine and norepinephrine signaling in the heart, lungs, and smooth muscle tissue, with epinephrine expressing the highest affinity. The activation of  $\beta_1$ ,  $\beta_2$  and  $\beta_3$  activates the enzyme, adenylate cyclase. This, in turn, leads to the activation of the secondary messenger cyclic adenosine monophosphate (cAMP), cAMP then activates protein kinase A (PKA) which phosphorylates target proteins, ultimately inducing smooth muscle relaxation and contraction of the cardiac tissue.

**Keywords**

Cimaterol;Beta-adrenergic agonist