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Product datasheet for TA328715

Adra2c Rabbit Polyclonal Antibody

Product data:

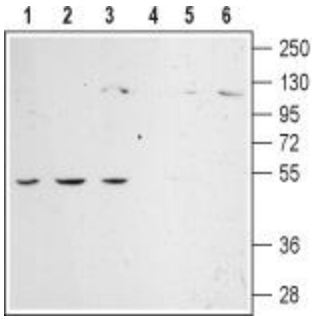
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)RRPDGAAYPQ*SGLNDE, corresponding to amino acid residues 192-207 of rat a2C-Adrenoceptor with replacement of cysteine 202 (C202) with serine (*S). 2nd extracellular loop.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	adrenoceptor alpha 2C
Database Link:	NP_612515 Entrez Gene 24175 Rat P22086

View online »

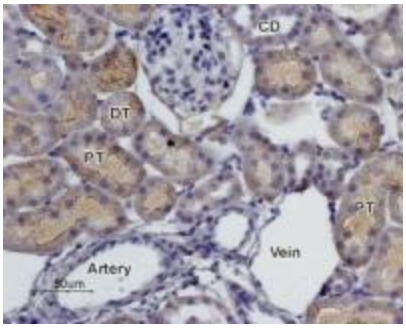
Background: Adrenoceptors (also called Adrenergic receptors) are the receptors for the catecholamines adrenaline and noradrenaline (called epinephrine and norepinephrine in the United States).Adrenaline and noradrenaline play important roles in the control of blood pressure, myocardial contractile rate and force, airway reactivity, and a variety of metabolic and central nervous system functions.The Adrenoceptors are members of the G-Protein Coupled Receptor (GPCR) superfamily of membrane proteins. They share a common structure of seven putative transmembrane domains, an extracellular N-terminus, and a cytoplasmic C-terminus.The Adrenoceptors are divided into three types: a1, a2 and Ã?-Adrenoceptors. Each type is further divided into at least three subtypes: a1A, a1B, a1D, a2A, a2B, a2C, Ã?1, Ã?2, Ã?3. The Adrenoceptors are expressed in nearly all peripheral tissues and in the central nervous system.The a2C-Adrenoceptor subtype was identified by binding studies in the opossum kidney and in cell lines from this organ (OK cells).Surprisingly, the a2C-Adrenoceptor subtype seems not to play a major role in cardiovascular regulation or the other classical effects of a2-Adrenergic receptors. Some researchers have suggested that the a2C-Adrenoceptor subtype may play a role in modulating motor behaviour and perhaps in memory processes.

Synonyms: ADRA2L2; ADRA2RL2; ADRARL2; alpha2-AR-C4; ALPHA2CAR

Product images:



Western blot analysis of rat lung (lanes 1 and 4), kidney (lanes 2 and 5) and brain (lanes 3 and 6) membranes: 1-3. Anti-a2C-Adrenoceptor (extracellular) antibody, (1:200). 4-6. Anti-a2C-Adrenoceptor (extracellular) antibody, preincubated with the control peptide antigen.



Expression of a2C-Adrenoceptor in rat kidney. Immunohistochemical staining of rat kidney paraffin embedded sections using Anti-a2C-Adrenoceptor (extracellular) antibody, (1:100). a2C-Adrenoceptor is expressed in both proximal (PT) and distal (DT) renal tubules and in the collecting ducts (CD). Hematoxilin is used as the counterstain.