

Product datasheet for **TA328711**

Adrb3 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:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide DAEAQESH*SNPRC, corresponding to amino acid residues 180-192 of mouse Å?3-Adrenoceptor with replacement of cysteine 186 (C186) 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% NaN ₃ .
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:	adrenergic receptor, beta 3
Database Link:	NP_038490 Entrez Gene 25645 Rat Entrez Gene 11556 Mouse P25962



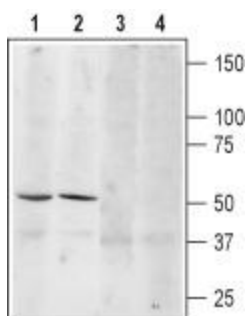
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Background:

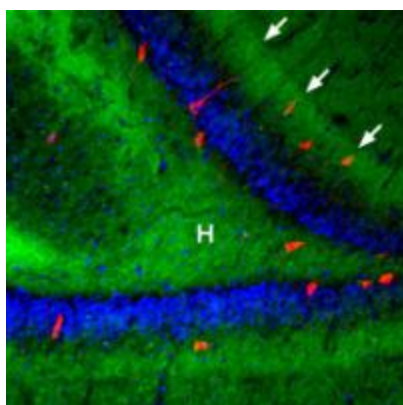
Adrenoceptors (also called Adrenergic receptors) are the receptors for the catecholamines adrenaline and noradrenaline (called epinephrine and norepinephrine in the United States). Adrenaline and noradrenaline play important roles in the control of blood pressure, myocardial contractile rate and force, 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 amino terminus, and a cytoplasmic carboxyl terminus. The Adrenoceptors are divided into three types: α_1 , α_2 and β -Adrenoceptors. Each type is further divided into at least three subtypes: α_1A , α_1B , α_1D , α_2A , α_2B , α_2C , β_1 , β_2 , β_3 . The Adrenoceptors are expressed in nearly all peripheral tissues and in the central nervous system. The β_3 -Adrenoceptor is insensitive to the commonly used β -antagonists and has often been referred to as the 'atypical' β -Adrenoceptor. Mouse β_3 -Adrenoceptor has two known splice variants, isoforms β_3a -Adrenoceptor and β_3b -Adrenoceptor. Both isoforms are expressed in white and brown adipose tissues. The β_3b -Adrenoceptor is highly expressed in brain. The β_3 -Adrenoceptor has been found to play a key role in the lipolytic action of catecholamines.

Synonyms:

ADRB3R; B3AR; BETA3AR; FLJ99960

Product images:


Western blot analysis of mouse brain (lanes 1 and 3) and rat brain (lanes 2 and 4) lysates: 1, 3. Anti- β_3 -Adrenoceptor (extracellular) antibody, (1:200). 2, 4. Anti- β_3 -Adrenoceptor (extracellular) antibody, preincubated with the control peptide antigen.



Expression of β_3 -Adrenoceptor in rat hippocampus. Immunohistochemical staining of rat hippocampal dentate gyrus using Anti- β_3 -Adrenoceptor antibody, (1:100), (green). β_3 -Adrenoceptor is strongly expressed in the hilus (H) and in the outer molecular layer (arrows). The distribution overlaps the entire layers, but is not restricted to nerve cells (stained red with mouse anti Parvalbumin). DAPI is used as the counterstain (blue).