Polyclonal Antibody to PDE3B (Phospho) - Aff - Purified

Alternate names: 5'-cyclic phosphodiesterase B, CGI-PDE B, CGIP, CGIP1, CGIPDE1, Cyclic GMP-inhibited phosphodiesterase B, HgIP1, Phosphodiesterase 3B, Phosphodiesterase-3B cGMP-inhibited, cGMP-inhibited 3'

Catalog No.: AP10211PU-N
Quantity: 0.1 mg
Concentration: 1.0-1.25 mg/ml (IgG concentration in 50% antibody)

Background: Cyclic nucleotides are hydrolyzed and compartmentalized by a family of enzymes called phosphodiesterases. In mammals at least 11 different families of PDEs can be discriminated (PDE1-PDE11) based on their kinetic properties and inhibition to various pharmacological agents. The members of the PDE3 families are known as cGMP inhibited PDEs. The PDE3 enzymes bind both cGMP and cAMP with different affinities (cAMP 4-10-fold than cGMP). The phosphodiesterase type-3 (PDE3) family is comprised of 2 genes (PDE3A and PDE3B). PDE3A is a 145 kDa protein and is expressed in various tissues (myocardium, vascular and non vascular smooth muscles, megakaryocytes and a subset of neurons (Snyder 1999; Maecchi et al., 1992). PDE3B is 1112 amino acids long and has two splice variants which are expressed in adipocyte tissue, hepatocyte, kidney, spermocytes and embryonic neuroepithelium (Reinhadt et. al., 1995). Both PDE3A and PDE3B are therapeutic targets for the treatment of obesity as inhibition of PDE3 increase the lipolytic activity and alter the insulin secretion and its response. PDE3 inhibitors also promote thermogenic and cardiotonic effects in animals.

Uniprot ID: Q13370
NCBI: NP_000913
GeneID: 5140
Host: Rabbit
Immunogen: Synthetic peptide (selective for only PDE3B variant).
AA Sequence: MFRRPS(p)LPCISRE

Format: State: Liquid purified IgG fraction
Purification: Affinity Chromatography
Buffer System: Stabilization Buffer containing 0.02% Sodium Azide

Applications: Western blot: 1/500.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects a single 145 kDa phosphorylated PDE3B in stimulated Jurkat cells. It does not cross react with PDE4A variants nor with any other PDEs.
**Species Reactivity:** Tested: Human, Mouse, Rat.

Expected from sequence similarity: Chicken, Monkey.

**Storage:** Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Product Citations:** Purchased from Acris:

Originator or purchased from resellers:

**General Readings:**

**Recommended Control Peptides:** AP10211CP-N