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Datasheet for ABIN7117437
anti-PDE9A antibody

Overview

| | |
|--------------|--|
| Quantity: | 100 µg |
| Target: | PDE9A |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PDE9A antibody is un-conjugated |
| Application: | ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

Product Details

| | |
|---------------|---------------------------------|
| Immunogen: | phosphodiesterase 9A |
| Isotype: | IgG |
| Purification: | Immunogen affinity purified |
| Purity: | ≥95 % as determined by SDS-PAGE |

Target Details

| | |
|-------------------|---|
| Target: | PDE9A |
| Alternative Name: | PDE9A (PDE9A Products) |
| Background: | Synonyms:HSPDE9A2, PDE9A, phosphodiesterase 9A Background:Specifically hydrolyzes the second messenger cGMP, which is a key regulator of many important physiological processes. Highly specific: compared to other members of the cyclic nucleotide phosphodiesterase family, has the highest affinity and selectivity for cGMP(PubMed:9624146, PubMed:18757755, |

Target Details

PubMed:21483814). Specifically regulates natriuretic-peptide-dependent cGMP signaling in heart, acting as a regulator of cardiac hypertrophy in myocytes and muscle. Does not regulate nitric oxide-dependent cGMP in heart(PubMed:25799991). Additional experiments are required to confirm whether its ability to hydrolyze natriuretic-peptide-dependent cGMP is specific to heart or is a general feature of the protein(Probable). In brain, involved in cognitive function, such as learning and long-term memory(By similarity).

Gene ID: 5152

UniProt: [O76083](#)

Application Details

Application Notes: IHC: 1:100-1:200, IF: 1:50-1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months