

Product datasheet

Anti-PDE5A antibody ab56505

1 Image

Overview

Product name	Anti-PDE5A antibody
Description	Mouse monoclonal to PDE5A
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment, corresponding to amino acids 29-139 of Human PDE5A

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG3
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab56505** in the following tested applications.

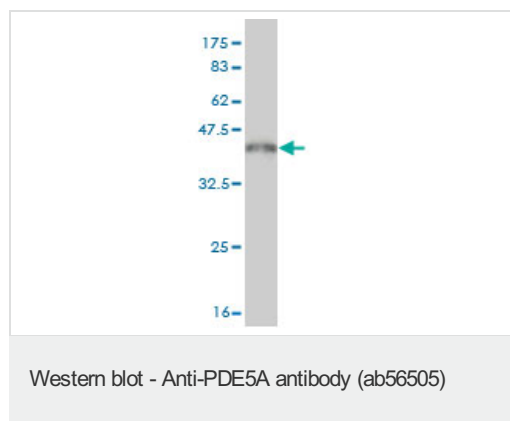
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.

Target

Function	Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP.
Tissue specificity	Expressed in aortic smooth muscle cells, heart, placenta, skeletal muscle and pancreas and, to a much lesser extent, in brain, liver and lung.
Pathway	Purine metabolism; 3',5'-cyclic GMP degradation; GMP from 3',5'-cyclic GMP: step 1/1.
Sequence similarities	Belongs to the cyclic nucleotide phosphodiesterase family. Contains 2 GAF domains.
Domain	Composed of a C-terminal catalytic domain containing two putative divalent metal sites and an N-terminal regulatory domain which contains two homologous allosteric cGMP-binding regions, A and B.
Post-translational modifications	Phosphorylation is regulated by binding of cGMP to the two allosteric sites.

Images



Western blot against tagged recombinant protein immunogen using ab56505 PDE5A antibody at 1ug/ml. Predicted band size of immunogen is 38 kDa

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