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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB06645 - Goat Anti-PDE5A Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** PDE5A, CN5A, PDE5, PDE5A1, CGB-PDE, phosphodiesterase 5A, cGMP-specific, cGMP-binding cGMP-specific 3',5'-cyclic nucleotide phosphodiesterase

**Official Symbol:** PDE5A

**Accession Number(s):** NP\_001074.2; NP\_246273.2; NP\_236914.2; (NP\_237223)

**Human GeneID(s):** [8654](#)

**Important Comments:** This antibody is expected to recognise reported isoforms NP\_001074.2, NP\_236914.2 and NP\_246273.2.

### Immunogen

Peptide with sequence C-LINGESGQAKRN, from the C Terminus of the protein sequence according to NP\_001074.2; NP\_246273.2; NP\_236914.2; (NP\_237223).

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:16000.

**Western blot:** In transfected HEK293 transiently expressing PDE5A isoform 2 a band of approx. 95kDa is observed. This band is not observed in the non-transfected HEK293 (calculated MW of 94.8kDa according to isoform 2, NP\_236914.2). Recommended concentration: 0.3-1µg/ml.

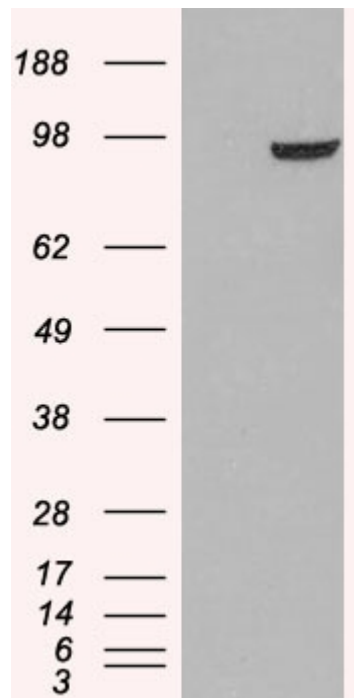
**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of HeLa cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of HEK293 cells. Recommended concentration: 10ug/ml.

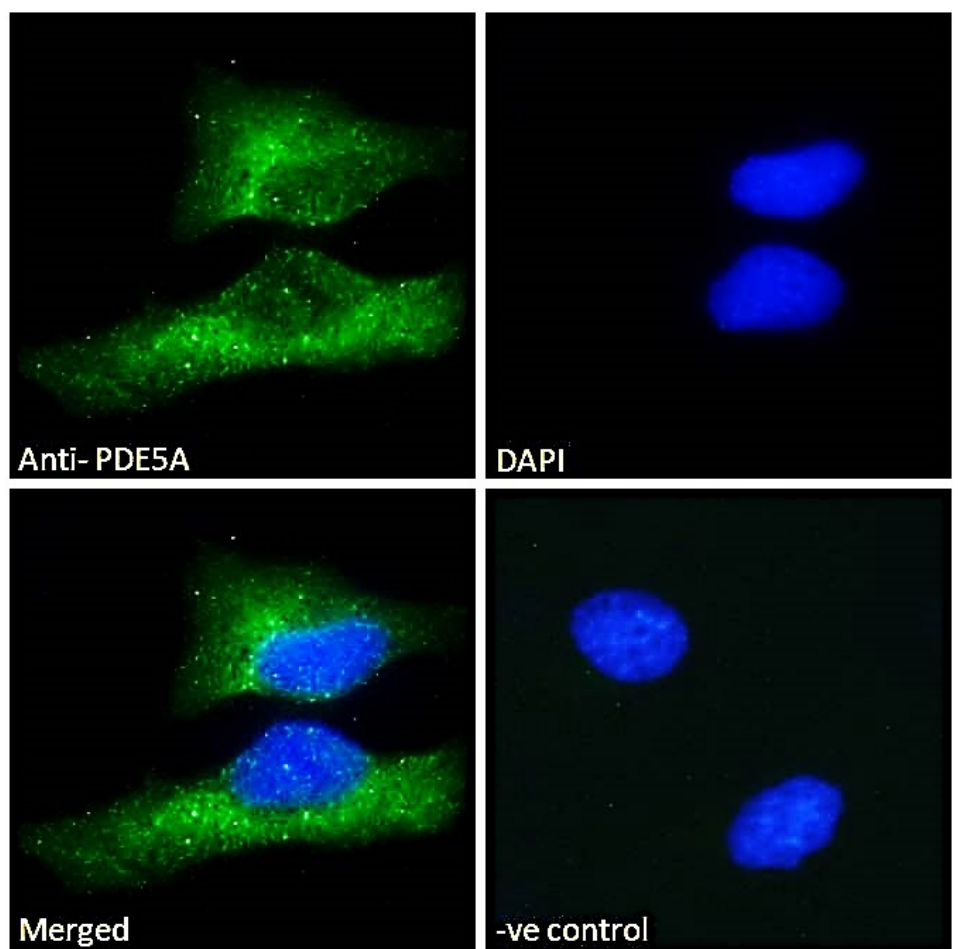
### Species Reactivity

**Tested:** Human

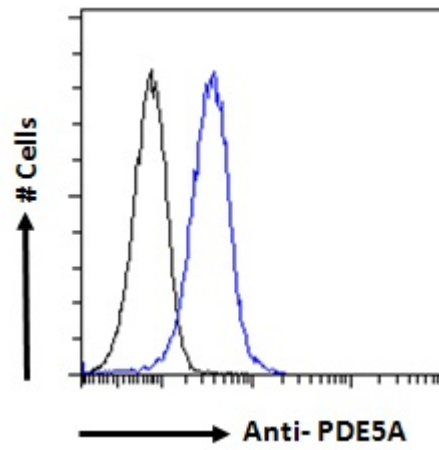
**Expected from sequence similarity:** Human, Rat, Dog, Cow



HEK293 overexpressing PDE5A (RC218974) and probed with EB06645 (mock transfection in first lane), tested by Origene.



EB06645 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06645 Flow cytometric analysis of paraformaldehyde fixed HEK293 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.