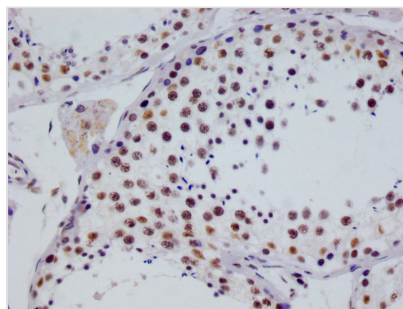




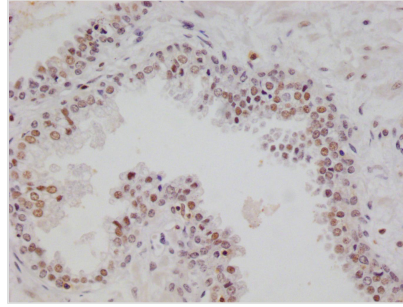
# RGS6 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA253226A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P49758
<b>Immunogen</b>	A synthesized peptide derived from human RGS6
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC, IF; Recommended dilution: IHC:1:50-1:200, IF:1:50-1:200
<b>Relevance</b>	Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form. The RGS6/GNB5 dimer enhances GNAO1 GTPase activity (PubMed:10521509). {ECO:0000269 PubMed:10521509}.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Signal transduction
<b>Gene Names</b>	RGS6
<b>Clone No.</b>	12H5

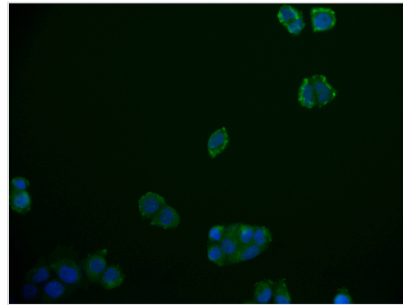
## Image



IHC image of CSB-RA253226A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA253226A0HU diluted at 1:100 and staining in paraffin-embedded human prostate cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of PC-3 cell with CSB-RA253226A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 592-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

## Description

CUSABIO developed the RGS6 recombinant monoclonal antibody through the following steps. First, B cells were isolated from the spleen of an immunized animal, using a synthesized peptide derived from human RGS6 as the immunogen. The isolated B cells underwent RNA extraction, followed by reverse transcription to generate cDNA. Using the cDNA as the template, the gene encoding the RGS6 antibody was then amplified using a degenerate primer and inserted into a vector. Through transfection, the recombinant vector was introduced into host cells, enabling the efficient expression of the RGS6 recombinant monoclonal antibodies. After cell culture, these antibodies were harvested from the supernatant and purified using affinity chromatography. The RGS6 recombinant monoclonal antibody has been demonstrated to detect human RGS6 protein in ELISA, IHC, and IF applications.