

**GPR183 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3402a****Specification**

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**GPR183 Antibody (internal region) - Product Information**

Application	IF, FC, Pep-ELISA
Primary Accession	<a href="#">P32249</a>
Other Accession	<a href="#">NP_004942.1</a> , <a href="#">1880</a> , <a href="#">321019 (mouse)</a> , <a href="#">679975 (rat)</a>
Predicted Host	Human, Mouse, Rat, Rabbit
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	41224

**GPR183 Antibody (internal region) - Additional Information****Gene ID** 1880**Other Names**

G-protein coupled receptor 183, Epstein-Barr virus-induced G-protein coupled receptor 2, EBI2, EBV-induced G-protein coupled receptor 2, GPR183, EBI2

**Dilution**

IF~~1:50~200

FC~~1:10~50

Pep-ELISA~~N/A

**Format**

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

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GPR183 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPR183 Antibody (internal region) - Protein Information****Name** GPR183 ([HGNC:3128](#))**Function**

G-protein coupled receptor expressed in lymphocytes that acts as a chemotactic receptor for

B-cells, T-cells, splenic dendritic cells, monocytes/macrophages and astrocytes (By similarity). Receptor for oxysterol 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC) and other related oxysterols (PubMed:<a href="http://www.uniprot.org/citations/21796212" target="\_blank">21796212</a>, PubMed:<a href="http://www.uniprot.org/citations/22875855" target="\_blank">22875855</a>, PubMed:<a href="http://www.uniprot.org/citations/22930711" target="\_blank">22930711</a>). Mediates cell positioning and movement of a number of cells by binding the 7-alpha,25-OHC ligand that forms a chemotactic gradient (By similarity). Binding of 7-alpha,25-OHC mediates the correct localization of B-cells during humoral immune responses (By similarity). Guides B-cell movement along the B-cell zone-T-cell zone boundary and later to interfollicular and outer follicular regions (By similarity). Its specific expression during B-cell maturation helps position B-cells appropriately for mounting T-dependent antibody responses (By similarity). Collaborates with CXCR5 to mediate B-cell migration; probably by forming a heterodimer with CXCR5 that affects the interaction between of CXCL13 and CXCR5 (PubMed:<a href="http://www.uniprot.org/citations/22913878" target="\_blank">22913878</a>). Also acts as a chemotactic receptor for some T-cells upon binding to 7- alpha,25-OHC ligand (By similarity). Promotes follicular helper T (Tfh) cells differentiation by positioning activated T-cells at the follicle-T-zone interface, promoting contact of newly activated CD4 T-cells with activated dendritic cells and exposing them to Tfh-cell-promoting inducible costimulator (ICOS) ligand (By similarity). Expression in splenic dendritic cells is required for their homeostasis, localization and ability to induce B- and T-cell responses: GPR183 acts as a chemotactic receptor in dendritic cells that mediates the accumulation of CD4(+) dendritic cells in bridging channels (By similarity). Regulates migration of astrocytes and is involved in communication between astrocytes and macrophages (PubMed:<a href="http://www.uniprot.org/citations/25297897" target="\_blank">25297897</a>). Promotes osteoclast precursor migration to bone surfaces (By similarity). Signals constitutively through G(i)-alpha, but not G(s)-alpha or G(q)- alpha (PubMed:<a href="http://www.uniprot.org/citations/21673108" target="\_blank">21673108</a>, PubMed:<a href="http://www.uniprot.org/citations/25297897" target="\_blank">25297897</a>). Signals constitutively also via MAPK1/3 (ERK1/2) (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein

#### **Tissue Location**

Expressed abundantly in lymphoid tissues such as spleen and lymph node, and in B- and T-lymphocytes (PubMed:16540462, PubMed:8383238). Also highly expressed in lung, heart and gastrointestinal tract, and weakly expressed in the urogenital system and brain (PubMed:16540462, PubMed:8383238). Expressed in astrocytes (PubMed:25297897).

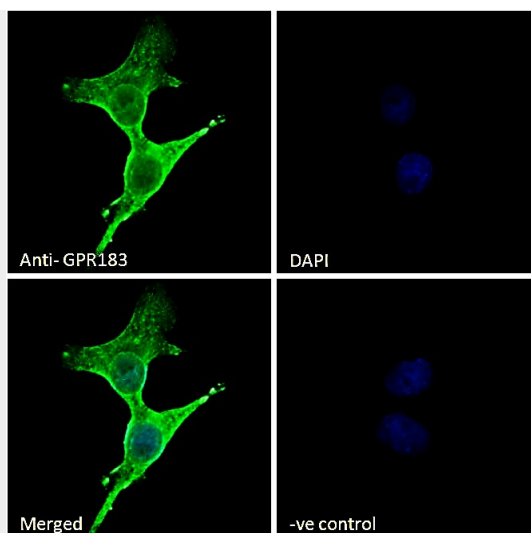
### **GPR183 Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

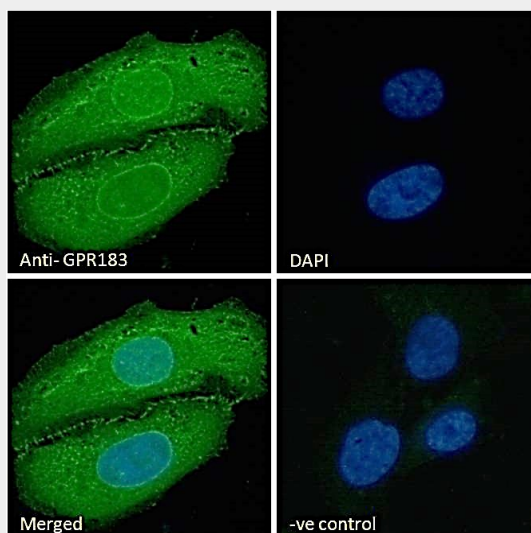
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **GPR183 Antibody (internal region) - Images**

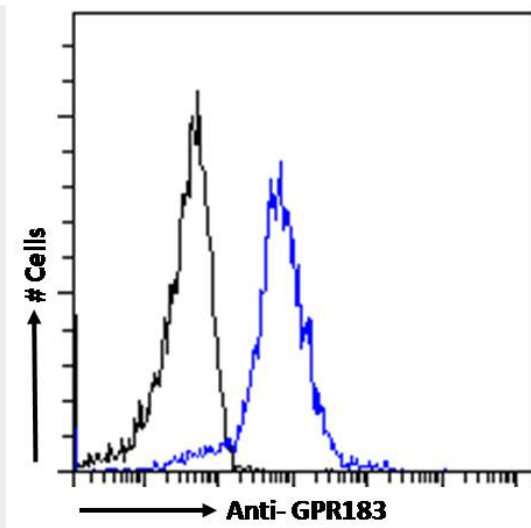




EB10541 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane, cytoplasmic, and nuclear membrane stain



EB10541 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear membrane and vesicle staining. The nuclei



EB10107 Flow cytometric analysis of paraformaldehyde fixed A431 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) fol

#### **GPR183 Antibody (internal region) - References**

Structural motifs of importance for the constitutive activity of the orphan 7TM receptor EBI2: analysis of receptor activation in the absence of an agonist. Benned-Jensen T, Rosenkilde MM, Molecular pharmacology 2008 Oct 74 (4): 1008-21. PMID: 18628402