

Datasheet for ABIN7043564

anti-Prostaglandin D2 Receptor 2 (PTGDR2) (3rd Extracellular Loop), (AA 270-283) antibody[Go to Product page](#)

4 Images

Overview

| | |
|----------------------|---|
| Quantity: | 25 µL |
| Target: | Prostaglandin D2 Receptor 2 (PTGDR2) |
| Binding Specificity: | 3rd Extracellular Loop, AA 270-283 |
| Reactivity: | Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | Un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF) |

Product Details

| | |
|-----------------------------|---|
| Immunogen: | Immunogen: Synthetic peptide Immunogen Sequence: (C)RAHSVTTLRQLASR, corresponding to amino acid residues 270-283 of rat PTGDR2 |
| Isotype: | IgG |
| Cross-Reactivity (Details): | Will not recognize DP2 receptor from human samples. |
| Characteristics: | Anti-CRTH2/GPR44 (extracellular) Antibody (ABIN7043564, ABIN7045118 and ABIN7045119) is a highly selective antibody directed against an epitope of the rat Prostanoid DP2 receptor. The antibody can be used in western blot, immunohistochemistry and live cell flow cytometry applications. The antibody recognizes an extracellular epitope and can potentially be used for detecting the protein in living cells. It has been designed to recognize DP2 receptor from mouse |

Product Details

and rat samples. It is unlikely to recognize the receptor from human samples.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: Prostaglandin D2 Receptor 2 (PTGDR2)

Alternative Name: CRTH2/GPR44 ([PTGDR2 Products](#))

Background: Alternative names: CRTH2/GPR44, Prostanoid DP2 receptor, Prostaglandin D2 receptor 2, PTGDR2, CD294

Gene ID: 309212

NCBI Accession: [NM_004778](#)

UniProt: [Q6XKD3](#)

Pathways: [Regulation of G-Protein Coupled Receptor Protein Signaling](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.

Concentration: 0.8 mg/mL

Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

Preservative: Sodium azide

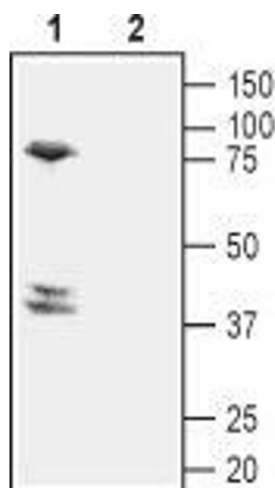
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: RT, 4 °C, -20 °C

Storage Comment: Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

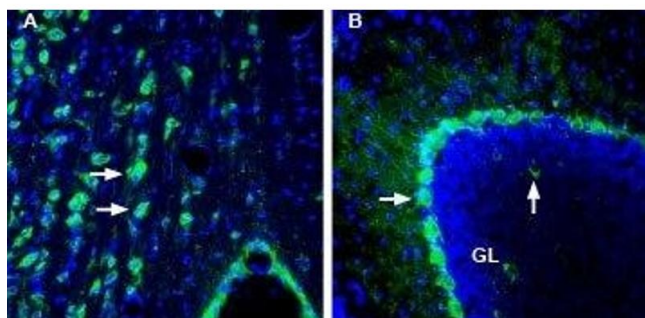
Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



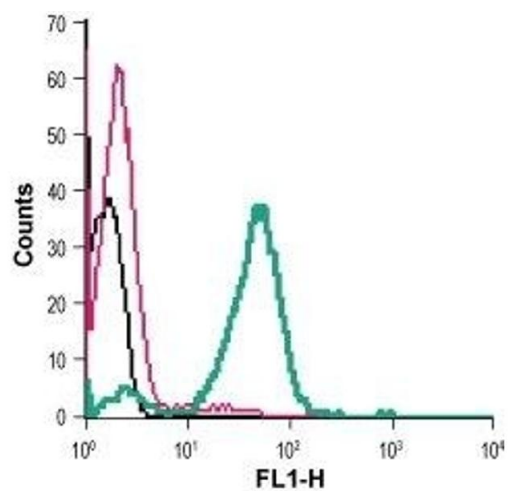
Western Blotting

Image 1. Western blot analysis of mouse brain lysate: -
1. Anti-CRTH2/GPR44 (extracellular) Antibody (ABIN7043564, ABIN7045118 and ABIN7045119), (1:400). 2. Anti-CRTH2/GPR44 (extracellular) Antibody, preincubated with CRTH2/GPR44 (extracellular) Blocking Peptide (#BLP-PR062).



Immunohistochemistry

Image 2. Expression of DP2 receptor (CRTH2/GPR44) in rat medial septum and mouse cerebellum - Immunohistochemical staining of perfusion-fixed frozen rat and mouse brain sections with Anti-CRTH2/GPR44 (extracellular) Antibody (ABIN7043564, ABIN7045118 and ABIN7045119), (1:200), followed by goat-anti-rabbit-AlexaFluor-488. A. DP2 receptor staining (green) in rat brain sections is detected in neuron-like profiles (arrows) in the medial septum/diagonal band. B. DP2 receptor staining (green) in mouse brain is observed in Purkinje cells (horizontal arrow) and in a subset of neurons in the granule layer (GL, vertical arrow). Cell nuclei are stained with DAPI (blue).



Flow Cytometry

Image 3. Cell surface detection of CRTH2 in live intact mouse P815 mast cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-CRTH2/GPR44 (extracellular) Antibody (ABIN7043564, ABIN7045118 and ABIN7045119), (5 µg) + goat-anti-rabbit-FITC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7043564.