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anti-Prostaglandin D2 Receptor 2 (PTGDR2) (Extracellular Domain) antibody





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Quantity:	50 μg
Target:	Prostaglandin D2 Receptor 2 (PTGDR2)
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (IHC)
Product Details	
Brand:	IHC-plus™
Immunogen:	Synthetic 34 amino acid peptide from 2nd extracellular domain of human GPR44 / CRTH2. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey (100%), Gorilla (97%), Panda, Dog, Pig (94%), Horse (91%), Elephant, Bovine (88%), Rabbit (85%), Mouse,
	Hamster (82%).
	Hamster (82%). Type of Immunogen: Synthetic peptide
Specificity:	

Product Details Purification: Immunoaffinity purified Target Details Target: Prostaglandin D2 Receptor 2 (PTGDR2) GPR44 / CRTH2 (PTGDR2 Products) Alternative Name Background: Name/Gene ID: PTGDR2 Subfamily: Prostanoid Family: GPCR Synonyms: PTGDR2, CD294, CRTH2, CD294 antigen, DP2, DL1R, G protein-coupled receptor 44, G-protein coupled receptor 44, HCRTH2, DP2 prostaglandin receptor, GPR44, Prostaglandin D2 receptor 2 Gene ID: 11251 Regulation of G-Protein Coupled Receptor Protein Signaling Pathways: **Application Details** Approved: IHC, IHC-P (2.5 - 5 µg/mL) **Application Notes:** Comment: Target Species of Antibody: Human Assay Procedure: The IHC-pro Immunohistochemistry Protocol **Tissue Preparation** Formalin fixation and embedding in paraffin wax **Tissue Sectioning** Make 4-µm sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C Deparaffinization Wash slides in 3 changes of xylene - 5 minutes each at room temperature. Rehydration Wash slides in 3 changes of 100% alcohol - 3 minutes each at room temperature. Wash slides in 2 changes of 95% alcohol - 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block - 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate - 30 minutes at room temperature.

Wash slides in distilled water - 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

Restrictions:

For Research Use only

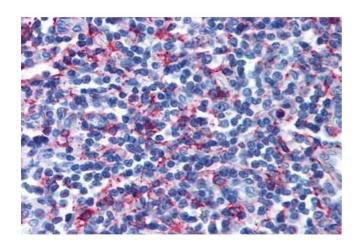
Handling

Format:	Liquid	
Concentration:	Lot specific	
Buffer:	PBS, less than 0.1 % sodium azide.	

Handling

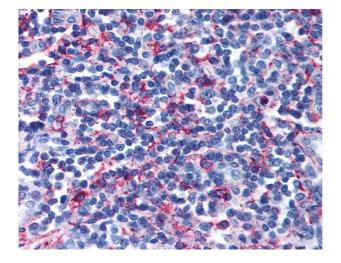
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-GPR44 / CRTH2 antibody ABIN1048826 IHC staining of human tonsil. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-GPR44 / CRTH2 antibody IHC of human tonsil. Immunohistochemistry of formalin-fixed, paraffinembedded tissue after heat-induced antigen retrieval.