

CRTH2 Polyclonal Antibody

Catalog NumberPA5-33719

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody		
Immunogen	Synthetic 33 amino acid peptide from N-terminal extracellular domain of human GPR44 / CRTH2.	Immunohistochemistry (Paraffin) (IHC (P))	5-10 µg/mL
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	Assay-dependent
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.1% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon (100%) Monkey (91%) Dog, Pig (88%) Rabbit (85%) Bovine (82%).

Background/Target Information

CRTH2 (GPR44) is a chemoattractant receptor-homologous molecule expressed on Th2 cells that is an identified receptor for the prostaglandin D2 (PGD2) and prostaglandin D receptor. CRTH2 is expressed on Th2 cells and eosinophils and mediates chemotaxis of these cells to PGD2 and is thus thought to be a key receptor mediating eosinophil and Th2 recruitment during allergic responses. However, CRTH2-null mice showed enhanced eosinophil recruitment into the lung consistent with observations that the CRTH2-null mice produced significantly higher amounts of interleukin-5 (IL-5) and IL-3. This suggests that CRTH2 plays a nonredundant role in restricting eosinophilia and allergic response in vivo. CRTH2 is also a novel member of the G protein-coupled leukocyte chemoattractant receptor family, which is selectively expressed in Th2 but not Th1 lineage cells. CRTH2 has been reported to be expressed in the central nervous system, peripheral tissues, and in blood cells, particularly activated T helper-2 cells. Two transcripts have been isolated: a 3.5 kb transcript expressed primarily in the thalamus, frontal cortex, pons and hippocampus; and a 3.4 kb transcript expressed in fetal liver, leukocytes and thymus. CRTH2 is selectively expressed in vivo in an activated state of Th2 cells including allergen-responsive Th2 cells, suggesting its pivotal roles in ongoing Th2-type immune reactions. At least two different isoforms of CRTH2 are known to exist. Single nucleotide polymorphisms in the 3' UTR of the CRTH2 gene have been associated with asthma susceptibility.

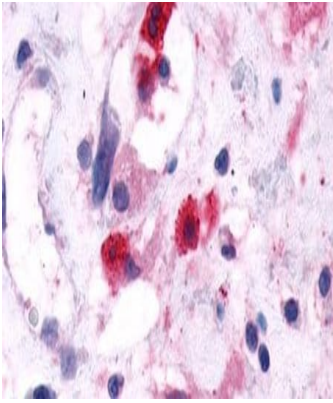
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Product Images For CRTH2 Polyclonal Antibody



CRTH2 Antibody (PA5-33719) in IHC (P)

Immunohistochemical analysis of formalin-fixed paraffin-embedded human nasal mucosa, eosinophils using a CD294/CRTH2/GPR44 polyclonal antibody (Product # PA5-33719). Heat-induced antigen retrieval was performed prior to staining.

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