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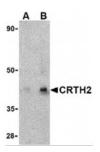
HIGH PERFORMANCE ANTIBODIES ... AND MORE

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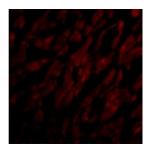
techsupport@prosci-inc.com

CRTH2 Antibody

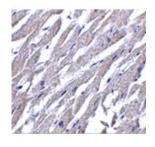
CATALOG NUMBER: 4029



Western blot analysis of CRTH2 in human heart tissue lysate with CRTH2 antibody at (A) 1 and (B) 2 ug/mL.



Immunofluorescence of CRTH2 in Human Heart cells with CRTH2 antibody at 20 ug/mL.



Immunohistochemistry of CRTH2 in human heart tissue with CRTH2 antibody at 2.5 ug/mL.

| used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. USER NOTE: Optimal dilutions for each application to be determined by the researcher. POSITIVE CONTROL: 1) Cat. No. 1301 - Human Heart Tissue Lysate IMMUNOGEN: CRTH2 antibody was raised against a 15 amino acid synthetic peptide from near the center of human CRTH- The immunogen is located within amino acids 220 - 270 of CRTH2. HOST SPECIES: Rabbit Properties PURIFICATION: CRTH2 Antibody is affinity chromatography purified via peptide column. PHYSICAL STATE: Liquid BUFFER: CRTH2 Antibody is supplied in PBS containing 0.02% sodium azide. CONCENTRATION: 1 mg/mL STORAGE CONDITIONS: CRTH2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. CLONALITY: Polyclonal ISOTYPE: IgG CONJUGATE: Unconjugated | | |
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| TESTED APPLICATIONS: ELISA, IF, IHC-P, WB APPLICATIONS: CRTH2 antibody can be used for detection of CRTH2 by Western blot at 1 and 2 ug/mL. Antibody can also bused for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. USER NOTE: Optimal dilutions for each application to be determined by the researcher. POSITIVE CONTROL: 1) Cat. No. 1301 - Human Heart Tissue Lysate IMMUNOGEN: CRTH2 antibody was raised against a 15 amino acid synthetic peptide from near the center of human CRTH- The immunogen is located within amino acids 220 - 270 of CRTH2. HOST SPECIES: Rabbit Properties PURIFICATION: CRTH2 Antibody is affinity chromatography purified via peptide column. PHYSICAL STATE: Liquid CRTH2 Antibody is supplied in PBS containing 0.02% sodium azide. CONCENTRATION: CRTH2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. CLONALITY: Polyclonal ISOTYPE: IgG CONJUGATE: Unconjugated Additional Info ALTERNATE NAMES: CRTH2 Antibody: DP2, DL1R, CD294, CRTH2, GPR44, Prostaglandin D2 receptor 2, Chemoattractant received homologous molecule expressed on Th2 cells | Specifications | |
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| homologous molecule expressed on Th2 cells | Additional Info | |
| ACCESSION NO.: NP_004769 | ALTERNATE NAMES: | CRTH2 Antibody: DP2, DL1R, CD294, CRTH2, GPR44, Prostaglandin D2 receptor 2, Chemoattractant receptor homologous molecule expressed on Th2 cells |
| | ACCESSION NO.: | NP_004769 |

| PROTEIN GI NO.: | 153791424 |
|------------------|---|
| OFFICIAL SYMBOL: | GPR44 |
| GENE ID: | 11251 |
| Background | |
| BACKGROUND: | CRTH2 Antibody: The chemoattractant receptor-homologous molecule expressed on Th2 cells (CRTH2) is a recently identified receptor for the prostaglandin D2 (PGD2) in addition to the classic 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. At least two different isoforms of CRTH2 are known to exist. |
| REFERENCES: | 1) Nagata K, Hirai K, Tanaka K, et al. CRTH2, an orphan receptor of T-helper-2-cells, is expressed on basophils and eosinophils and responds to mast cell-derived factor(s). FEBS Lett. 1999; 459:195-9. |
| | 2) Shichijo M, Sugimoto H, Nagao K, et al. Chemoattractant receptor-homologous molecule expressed on Th2 cells activation in vivo increases blood leukocyte counts and its blockage abrogates 13,14-dihydro-15-keto-prostaglandin D2-induced eosinophilia in rats. J. Pharmacol. Exp. Ther. 2003; 307:518-25. |
| | 3) Chevalier E, Stock J, Fisher T, et al. Cutting edge: chemoattractant receptor-homologous molecule expressed on Th2 cells plays a restricting role on IL-5 production and eosinophil recruitment. J. Immunol. 2005; 2056-60. |
| | (07-01D) |

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December 12, 2016