bs-13537R **[Primary Antibody]**

GPR44 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 11251 **SWISS:** Q9Y5Y4

Target: GPR44

Immunogen: KLH conjugated synthetic peptide derived from human GPR44/CD294: 121-220/395. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The human chemoattractant receptor-homologous molecule (CRTH2, GPR44, G protein-coupled receptor 44) maps to chromosome 11q12-q13.3 and encodes a 472 amino acid G protein-coupled leukocyte chemoattractant receptor. Chemoattractant receptors present on Th2 cells respond to parasites and play a central role in allergic inflammation; they are absent on type 1 T helper (Th1) cells, which address intracellular bacteria and many viruses. CRTH2 contains seven putative transmembrane domains and mediates signals to the interior of the cell upon exposure to its cognate ligand prostaglandin (PG) D2, which is able to attract basophils, eosinophils, type 2 Th (Th2) cells and type 2 cytotoxic (Tc2) CD8+ T lymphocytes. CRTH2 expression on active Th2 cells influences supportive roles in Th2-type immune reactions. 3.5 kb CRTH2 transcripts are present in thalamus, frontal cortex, pons, hippocampus, hypothalamus and caudate, while 3.4 kb transcripts are present in fetal liver, leukocytes and thymus.

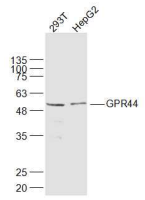
Applications: **WB** (1:500-2000)

Reactivity: Human

Predicted MW.: 43 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: 293T(Human) Cell Lysate at 30 ug HepG2(Human) Cell Lysate at 30 ug Primary: Anti-GPR44 (bs-13537R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 53 kD

SELECTED CITATIONS

- **[IF=5.1]** Yang Ruixue. et al. Impact of innate lymphoid cell type 2 in chronic lymphocytic leukemia on the function of treg and CD8+ T cells through IL-9. CANCER IMMUNOL IMMUN. 2025 Jul;74(7):1-13 IF ;Human. 40445384