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Product datasheet for TA392817M

GPR44 (PTGDR2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 80-127 of Human GPR44.
Specificity:	GPR44 (D113) polyclonal antibody detects endogenous levels of GPR44 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 49 kDa
Gene Name:	prostaglandin D2 receptor 2
Database Link:	Entrez Gene 11251 Human Q9Y5Y4
Background:	G protein-coupled receptors (GPCRs), such as GPR44, are integral membrane proteins containing 7 putative transmembrane domains (TMs). These proteins mediate signals to the interior of the cell via activation of heterotrimeric G proteins that in turn activate various effector proteins, ultimately resulting in a physiologic response. GPR44 has recently been found to belong to the prostanoid receptor family and named DP2, with this becoming the official IUPHAR nomenclature. GPR44 has recently been found when activated by elevated level of prostaglandin D2 (PGD2), it could inhibit hair growth. This suggests the PGD2-GPR44 pathway as a potential target for bald treatment. A particularly promising compound for blocking the PGD2-GPR44 pathway is a compound known as TM-30089, which exhibits a "functional insurmountability" of PGD2 expression.

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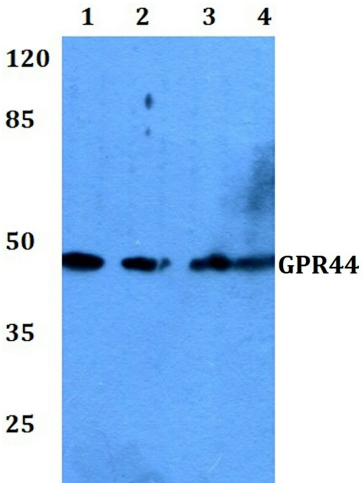
Synonyms: CD_antigen=CD294; Chemoattractant receptor-homologous molecule expressed on Th2 cells; CRTH2; DL1R; DP-2; DP2; G-protein coupled receptor 44; GPR44; Prostaglandin D2 receptor 2; PTGDR2

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of GPR44 (D113) pAb at 1:1000 dilution Lane1:SGC7901 whole cell lysate(40ug) Lane2:K562 whole cell lysate(40ug) Lane3:H9C2 whole cell lysate(40ug) Lane4:AML-12 whole cell lysate(40ug)