

CD294 Polyclonal Antibody
Catalog # AP73588**Specification**

CD294 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	Q9Y5Y4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

CD294 Polyclonal Antibody - Additional Information**Gene ID** 11251**Other Names**

PTGDR2; CRTH2; DL1R; GPR44; Prostaglandin D2 receptor 2; Chemoattractant receptor-homologous molecule expressed on Th2 cells; G-protein coupled receptor 44; CD294

Dilution

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CD294 Polyclonal Antibody - Protein Information**Name** PTGDR2**Synonyms** CRTH2, DL1R, GPR44**Function**

Receptor for prostaglandin D2 (PGD2). Coupled to the G(i)- protein. Receptor activation may result in pertussis toxin-sensitive decreases in cAMP levels and Ca(2+) mobilization. PI3K signaling is also implicated in mediating PTGDR2 effects. PGD2 induced receptor internalization. CRTH2 internalization can be regulated by diverse kinases such as, PKC, PKA, GRK2, GPRK5/GRK5 and GRK6. Receptor activation is responsible, at least in part, in immune regulation and allergic/inflammation responses.

Cellular Location

Cell membrane; Multi-pass membrane protein. Note=Internalized receptors colocalized with RAB11A.

Tissue Location

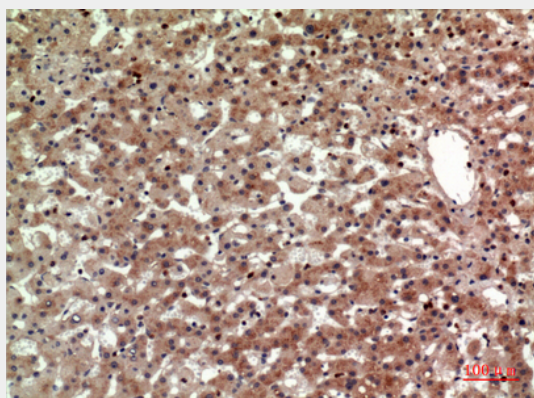
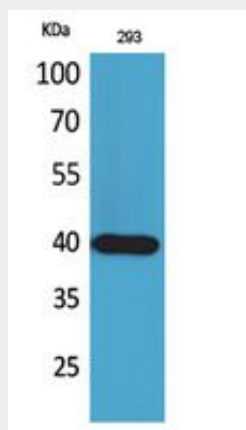
Widespread expression. High expression in stomach, small intestine, heart and thymus. Intermediate expression in colon, spinal cord and peripheral blood and low expression in brain, skeletal muscle and spleen. Expressed also on Th2- and Tc2- type cells, eosinophils and basophils.

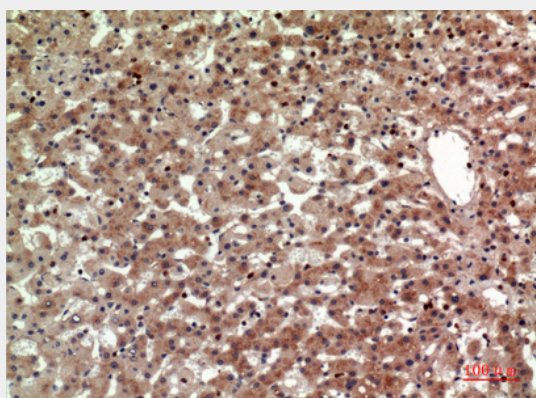
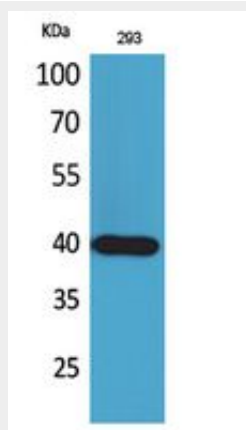
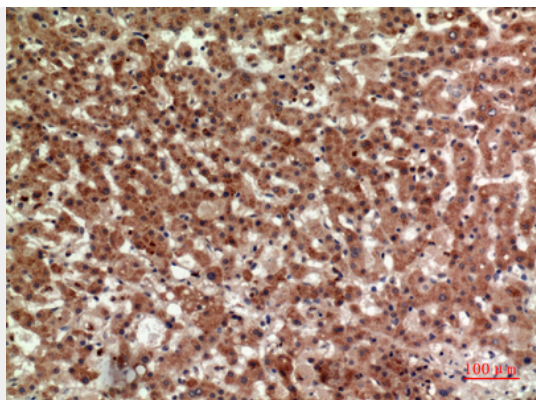
CD294 Polyclonal Antibody - Protocols

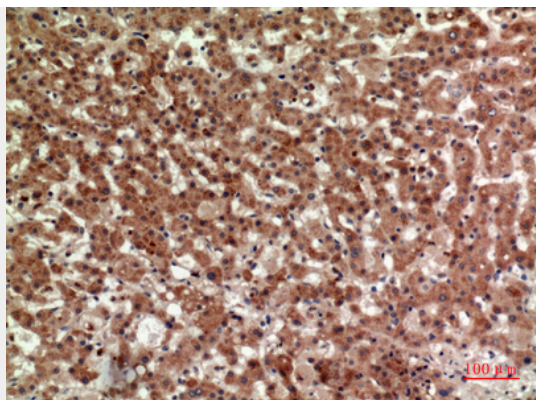
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD294 Polyclonal Antibody - Images







CD294 Polyclonal Antibody - Background

Receptor for prostaglandin D₂ (PGD₂). Coupled to the G(i)-protein. Receptor activation may result in pertussis toxin- sensitive decreases in cAMP levels and Ca²⁺ mobilization. PI3K signaling is also implicated in mediating PTGDR2 effects. PGD₂ induced receptor internalization. CRTH2 internalization can be regulated by diverse kinases such as, PKC, PKA, GRK2, GPRK5/GRK5 and GRK6. Receptor activation is responsible, at least in part, in immune regulation and allergic/inflammation responses.