

Anti-PTGER2 Picoband Antibody

Catalog # ABO12077

Specification

Anti-PTGER2 Picoband Antibody - Product Information

Application	WB
Primary Accession	<u>P43116</u>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	
Rabbit IgG polyclonal antibody for Prosta	glandin E2 receptor EP2 sul

Rabbit IgG polyclonal antibody for Prostaglandin E2 receptor EP2 subtype (PTGER2) detection. Tested with WB in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PTGER2 Picoband Antibody - Additional Information

Gene ID 5732

Other Names Prostaglandin E2 receptor EP2 subtype, PGE receptor EP2 subtype, PGE2 receptor EP2 subtype, Prostanoid EP2 receptor, PTGER2

Calculated MW 39761 MW KDa

Application Details Western blot, 0.1-0.5 μg/ml, Human

Subcellular Localization Cell membrane; Multi-pass membrane protein.

Tissue Specificity Placenta and lung.

Protein Name Prostaglandin E2 receptor EP2 subtype

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human PTGER2 (281-308aa TIFAYMNETSSRKEKWDLQALRFLSINS), different from the related mouse sequence by four amino acids, and from the related rat sequence by three amino acids.



Purification Immunogen affinity purified.

Cross Reactivity No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities Belongs to the G-protein coupled receptor 1 family.

Anti-PTGER2 Picoband Antibody - Protein Information

Name PTGER2

Function

Receptor for prostaglandin E2 (PGE2). The activity of this receptor is mediated by G(s) proteins that stimulate adenylate cyclase. The subsequent raise in intracellular cAMP is responsible for the relaxing effect of this receptor on smooth muscle.

Cellular Location Cell membrane; Multi-pass membrane protein.

Tissue Location Placenta and lung.

Anti-PTGER2 Picoband 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 Cytomety
- <u>Cell Culture</u>

Anti-PTGER2 Picoband Antibody - Images





Anti-PTGER2 Picoband antibody, ABO12077, Western blottingAll lanes: Anti PTGER2 (ABO12077) at 0.5ug/mlLane 1: Human Placenta Tissue Lysate at 50ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: HEPG2 Whole Cell Lysate at 40ugPredicted bind size: 40KDObserved bind size: 40KD

Anti-PTGER2 Picoband Antibody - Background

Prostaglandin E2 receptor (53kDa), also known as EP2, is aprostaglandin receptor for prostaglandin E2. It is encoded by the human gene PTGER2. It may be associated with aspirin-induced asthma. PTGER2 is mapped to chromosome 14q22. This gene encodes a receptor for prostaglandin E2, a metabolite of arachidonic acid which has different biologic activities in a wide range of tissues. Mutations in this gene are associated with aspirin-induced susceptibility to asthma.