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EDG4 Antibody (NT)

Rabbit Polyclonal Antibody
Catalog # ABV11766

Product Information

Application	WB, IHC
Primary Accession	Q9HBW0
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38741

Additional Information

Gene ID	9170
Positive Control	Western blot, IHC
Application & Usage	WB: 1:1000, IHC: 1:50~100
Alias Symbol	EDG4
Other Names	Lysophosphatidic acid receptor 2, LPA receptor 2, LPA-2, Lysophosphatidic acid receptor Edg-4, LPAR2, EDG4, LPA2
Appearance	Colourless liquid
Formulation	100 □g (0.5 mg/ml) of antibody in PBS with 0.09% (W/V) sodium azide.
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	EDG4 Antibody (NT) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

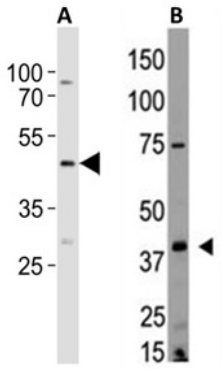
Name	LPAR2 (HGNC:3168)
Synonyms	EDG4, LPA2
Function	Receptor for lysophosphatidic acid (LPA), a mediator of diverse cellular activities. Seems to be coupled to the G(i)/G(o), G(12)/G(13), and G(q) families of heteromeric G proteins. Plays a key role in phospholipase C-beta (PLC-beta) signaling pathway. Stimulates phospholipase C (PLC) activity in a manner that is independent of RALA activation.
Cellular Location	Cell surface. Cell membrane; Multi-pass membrane protein. Note=Prior to

	LPA treatment found predominantly at the cell surface but in the presence of LPA colocalizes with RALA in the endocytic vesicles
Tissue Location	Expressed most abundantly in testes and peripheral blood leukocytes with less expression in pancreas, spleen, thymus and prostate. Little or no expression in heart, brain, placenta, lung, liver, skeletal muscle, kidney, ovary, small intestine, or colon

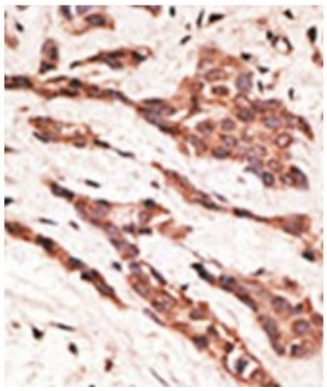
Background

EDG4 is a member of family I of the G protein-coupled receptors, as well as the EDG family of proteins. This protein functions as a lysophosphatidic acid (LPA) receptor and contributes to Ca2+ mobilization, a critical cellular response to LPA in cells, through association with Gi and Gq proteins. It plays a key role in phospholipase C-beta (PLC-beta) signaling pathway and stimulates phospholipase C (PLC) activity in a manner that is independent of RALA activation.

Images



Western blot analysis using EDG4(NT) antibody of cell lysates from: (A)MDA-MB-231;(B)HL-60



Formalin-fixed and paraffin-embedded human cancer tissue reacted with EDG4 antibody(NT), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.