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Datasheet for ABIN7127464 Recombinant anti-LPAR1 antibody

Image



Overview

Quantity:	100 µL
Target:	LPAR1
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This LPAR1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	A synthesized peptide derived from human EDG2
Clone:	4C3
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

Target Details

Target:	LPAR1
Alternative Name:	LPAR1 (LPAR1 Products)
Background:	Background: Receptor for lysophosphatidic acid (LPA) (PubMed:9070858, PubMed:19306925,

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PubMed:25025571, PubMed:26091040). Plays a role in the reorganization of the actin		
cytoskeleton, cell migration, differentiation and proliferation, and thereby contributes to the		
responses to tissue damage and infectious agents. Activates downstream signaling cascades		
via the G(i)/G(o), G(12)/G(13), and G(q) families of heteromeric G proteins. Signaling inhibits		
adenylyl cyclase activity and decreases cellular cAMP levels (PubMed:26091040). Signaling		
triggers an increase of cytoplasmic Ca(2+) levels (PubMed:19656035, PubMed:19733258,		
PubMed:26091040). Activates RALA, this leads to the activation of phospholipase C (PLC) and		
the formation of inositol 1,4,5-trisphosphate (PubMed:19306925). Signaling mediates activation		
of down-stream MAP kinases (By similarity). Contributes to the regulation of cell shape.		
Promotes Rho-dependent reorganization of the actin cytoskeleton in neuronal cells and neurite		
retraction (PubMed:26091040). Promotes the activation of Rho and the formation of actin		
stress fibers (PubMed:26091040). Promotes formation of lamellipodia at the leading edge of		
migrating cells via activation of RAC1 (By similarity). Through its function as lysophosphatidic		
acid receptor, plays a role in chemotaxis and cell migration, including responses to injury and		
wounding (PubMed:18066075, PubMed:19656035, PubMed:19733258). Plays a role in		
triggering inflammation in response to bacterial lipopolysaccharide (LPS) via its interaction with		
CD14. Promotes cell proliferation in response to lysophosphatidic acid. Required for normal		
skeleton development. May play a role in osteoblast differentiation. Required for normal brain		
development. Required for normal proliferation, survival and maturation of newly formed		
neurons in the adult dentate gyrus. Plays a role in pain perception and in the initiation of		
neuropathic pain (By similarity).		

Aliases: Lysophosphatidic acid receptor 1 (LPA receptor 1) (LPA-1) (Lysophosphatidic acid receptor Edg-2), LPAR1, EDG2 LPA1

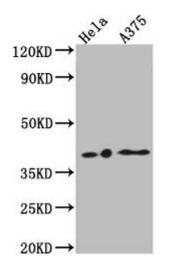
UniProt:	Q92633
Pathways:	Myometrial Relaxation and Contraction, Smooth Muscle Cell Migration
Application Details	
Application Notes:	Recommended dilution: WB:1:500-1:5000,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %

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Handling

	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western Blot Positive WB detected in: Hela whole cell lysate, A375 whole cell lysate All lanes: EDG2 antibody at 1:1000 Secondary Goat polyclonal to rabbit lgG at 1/50000 dilution Predicted band size: 42, 42 kDa Observed band size: 42 kDa