

产品名称: EDG2 (4G14) Rabbit Monoclonal Antibody
产品货号: AMRe10297



产品概述 (Summary)

产品名称 (Production Name)	EDG2 (4G14) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,IP,IF-P
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	LPAR1
别名 (Alternative Names)	Lysophosphatidic acid receptor 1; LPA receptor 1; LPA-1; Lysophosphatidic acid receptor Edg-2; LPAR1; EDG2; LPA1;
基因 ID (Gene ID)	1902.0
蛋白 ID (SwissProt ID)	Q92633.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IHC 1:100-1:200,IP 1:10-1:100,IF-P 1:100-1:200
蛋白分子量 (Molecular Weight)	41kDa

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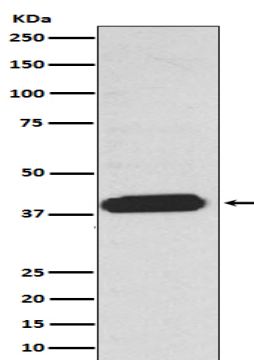
研究背景 (Background)

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. Stimulates phospholipase C (PLC) activity in a manner that is dependent on RALA activation. Receptor for lysophosphatidic acid (LPA) (PubMed:[9070858](http://www.uniprot.org/citations/9070858)), PubMed:[19306925](http://www.uniprot.org/citations/19306925)), PubMed:[25025571](http://www.uniprot.org/citations/25025571)), PubMed:[26091040](http://www.uniprot.org/citations/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 adenyl cyclase activity and decreases cellular cAMP levels (PubMed:[26091040](http://www.uniprot.org/citations/26091040)). Signaling triggers an increase of cytoplasmic Ca(2+) levels (PubMed:[19656035](http://www.uniprot.org/citations/19656035)), PubMed:[19733258](http://www.uniprot.org/citations/19733258)), PubMed:[26091040](http://www.uniprot.org/citations/26091040)). Activates RALA; this leads to the activation of phospholipase C (PLC) and the formation of inositol 1,4,5-trisphosphate (PubMed:[19306925](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/26091040)). Promotes the activation of Rho and the formation of actin stress fibers (PubMed:[26091040](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/18066075)), PubMed:[19656035](http://www.uniprot.org/citations/19656035)), PubMed:[19733258](http://www.uniprot.org/citations/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).

研究领域 (Research Area)

图片 (Image Data)

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Western blot analysis of EDG2 expression in A375 cell lysate.

注意事项 (Note)

For research use only .