10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Rarres3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57431

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UL19
Reactivity	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18179
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Rarres3
Epitope Specificity	7-100/164
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass membrane protein.
SIMILARITY	Belongs to the H-rev107 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Retinoids exert biologic effects such as potent growth inhibitory and cell differentiation activities and are used in the treatment of hyperproliferative dermatological diseases. These effects are mediated by specific nuclear receptor proteins that are members of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. RARRES1, RARRES2, and RARRES3 are genes whose expression is upregulated by the synthetic retinoid tazarotene. RARRES3 is thought act as a tumor suppressor or growth regulator. [provided by RefSeq, Jul 2008].

Additional Information

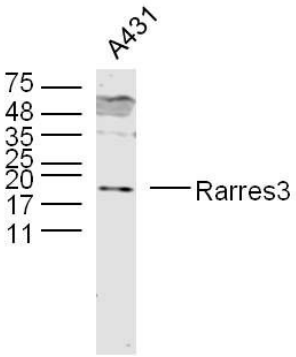
Gene ID	5920
Other Names	Phospholipase A and acyltransferase 4 {ECO:0000312|HGNC:HGNC:9869}, 2.3.1.-, 3.1.1.32, 3.1.1.4, HRAS-like suppressor 4, HRSL4, RAR-responsive protein TIG3, Retinoic acid receptor responder protein 3, Retinoid-inducible gene 1 protein, Tazarotene-induced gene 3 protein, PLAAT4 (HGNC:9869), RARRES3, RIG1, TIG3
Target/Specificity	Widely expressed.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PLAAT4 (HGNC:9869)
Synonyms	RARRES3, RIG1, TIG3
Function	Exhibits both phospholipase A1/2 and acyltransferase activities (PubMed:19615464, PubMed:22605381, PubMed:22825852, PubMed:26503625). Shows phospholipase A1 (PLA1) and A2 (PLA2), catalyzing the calcium-independent release of fatty acids from the sn-1 or sn-2 position of glycerophospholipids (PubMed:19615464, PubMed:22605381, PubMed:22825852). For most substrates, PLA1 activity is much higher than PLA2 activity (PubMed:19615464). Shows O- acyltransferase activity, catalyzing the transfer of a fatty acyl group from glycerophospholipid to the hydroxyl group of lysophospholipid (PubMed:19615464). Shows N-acyltransferase activity, catalyzing the calcium-independent transfer of a fatty acyl group at the sn-1 position of phosphatidylcholine (PC) and other glycerophospholipids to the primary amine of phosphatidylethanolamine (PE), forming N-acylphosphatidylethanolamine (NAPE), which serves as precursor for N-acylethanolamines (NAEs) (PubMed:19615464, PubMed:22605381, PubMed:22825852). Promotes keratinocyte differentiation via activation of TGM1 (PubMed:17762858).
Cellular Location	Membrane; Single- pass membrane protein
Tissue Location	Widely expressed.

Images



Sample: A431 (human)Cell Lysate at 40 ug
Primary: Anti-Rarres3(AP57431) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 18 kD
Observed band size: 18 kD