R&D SYSTEMS
a bio-techne brand

Human RARRES3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6139

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RARRES3 in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) RARRES1 and rhLatexin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human RARRES3 Asp12-Lys134 Accession # Q9UL19
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

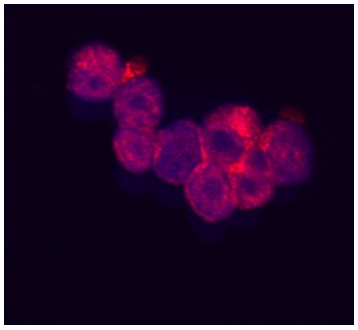
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunocytochemistry	5-15 µg/mL	See Below

DATA

Immunocytochemistry



RARRES3 in Raji Human Cell Line. RARRES3 was detected in immersion fixed Raji human Burkitt's lymphoma cell line using Human RARRES3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6139) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

RARRES3 (Retinoic acid receptor responder 3; also Tig3) is an 18-20 kDa member of the lecithin retinol acyltransferase family of molecules. It is widely expressed, particularly in keratinocytes, and is considered to have multiple functions. These include phospholipase A activity and an ability to both activate type I transglutaminase, and inhibit Ras activation Human RARRES3 is 164 amino acids (aa) in length. It contains a catalytic residue at Cys113, and a hydrophobic membrane-anchoring domain between aa 134-164. Within the cell, RARRES3 appears to be equally distributed between membrane and soluble fractions. RARRES3 is also reported to form higher order multimers. One potential isoform exists that shows a 26 aa substitution for aa 131-164. No meaningful structural ortholog of RARRES3 exists in rodent.

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