

## DESCRIPTION

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

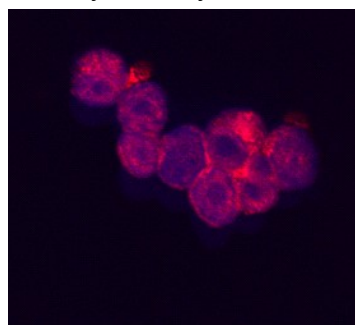
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunocytochemistry</b>	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

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.