

DESCRIPTION

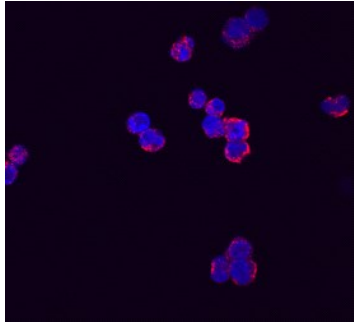
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|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Recognizes human RARRES3 in Western blots and direct ELISAs. In Western blots and direct ELISAs, no cross-reactivity with recombinant human (rh) RARRES1 or rhLatexin is observed. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 659209 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -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 | 8-25 µg/mL | See Below |

DATA

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| <p>Immunocytochemistry</p>  | <p>RARRES3 in Raji Human Cell Line. RARRES3 was detected in immersion fixed Raji human Burkitt's lymphoma cell line using Mouse Anti-Human RARRES3 Monoclonal Antibody (Catalog # MAB6139) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) 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.</p> |
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PREPARATION AND STORAGE

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| Reconstitution | Sterile PBS to a final concentration of 0.5 mg/mL. |
| 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. <ul style="list-style-type: none"> ● 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 called Tig3 (tazarotene-induced gene 3) or RIG1 (retinoid-inducible gene 1), is an 18 kDa, 164 amino acid (aa) cytoplasmic protein within the LRAT (lecithin retinol acyltransferase) family of growth inhibitory proteins, which are class II tumor-suppressors. RARRES3 is expressed in a variety of cells including epidermal keratinocytes, and may be downregulated in tumor cells and cell lines. It shows phospholipase activity and interaction with type I transglutaminase. A C-terminal hydrophobic region allows perinuclear localization. RARRES3 is not structurally related to other RARRES genes. A canine ortholog shares 72% aa identity within the region used as an immunogen; orthologs are unlikely in rodents.