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Product datasheet for AM31027PU-N

Retinoic Acid Receptor alpha (RARA) (1-463) Mouse Monoclonal Antibody [Clone ID: 2C9-1F8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2C9-1F8
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**ELISA**. **Immunofluorescence:** 10 µg/ml. **Immunohistochemistry on Paraffin Sections:** 5 µg/ml. **Western Blot**.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	RARA (AAH08727, 1 a.a. ~ 463 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Specificity:	This antibody reacts to full length RARA.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purfied Ig fraction
Concentration:	lot specific
Purification:	Protein A chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	retinoic acid receptor alpha
Database Link:	Entrez Gene 5914 Human P10276

View online »

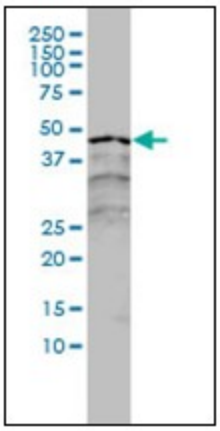
Background: Retinoic acid receptor alpha (RAR alpha), a NR1 Thyroid Hormone-Like Receptor, has a key effect on the development of acute promyelocytic leukemia (APL). APL results from chromosomal translocation of RAR alpha to various partner genes, including the promyelocytic leukemia (PML) gene on 15q22, the promyelocytic leukemia zinc finger (PLZF) gene on 11q23, the nucleophosmin (NPM) gene on 5q35, the nuclear mitotic apparatus (NuMA) gene on 11q13, and the signal transducer and activator of transcription STAT5b. The aberrant RAR alpha fusion proteins contribute to leukemic transformation by dominant inhibition of the expression of target genes that are important for cellular differentiation. Four alternatively spliced isoforms of RAR alpha have been documented in humans (RAR alpha1, RAR alpha2, RAR alpha1DeltaBC, and RAR alpha1DeltaB), one of which, RAR alpha1DeltaB, does not code for a functional receptor.

Synonyms: NR1B1, Retinoic acid receptor alpha, Nuclear receptor subfamily 1 group B member 1

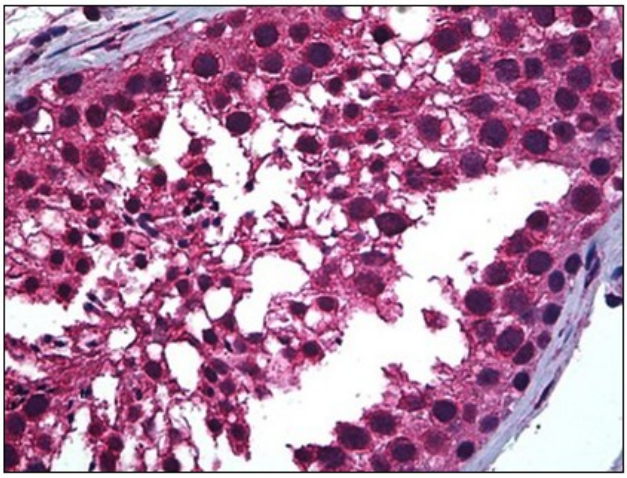
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Acute myeloid leukemia, Pathways in cancer

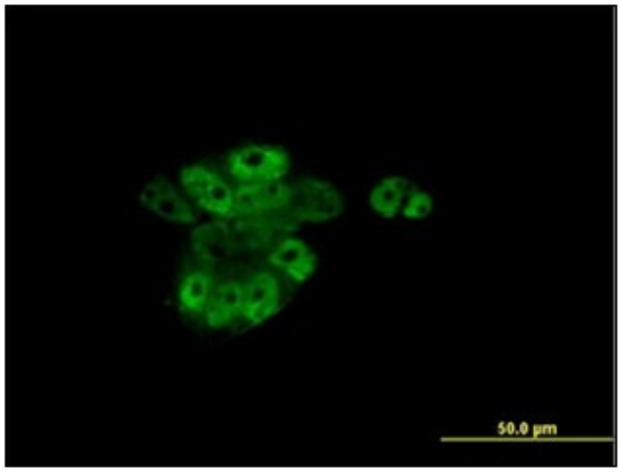
Product images:



RARA monoclonal antibody clone 2C9-1F8 Western Blot analysis of RARA expression in A-431.



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of monoclonal antibody to RARA on A-431 cell. [antibody concentration 10 ug/ml]