

RAR γ (m2): 293T Lysate: sc-122976

BACKGROUND

Retinoids are metabolites of vitamin A (retinol) that are important signaling molecules during vertebrate development and tissue differentiation. Retinoic acid receptors (RARs) and retinoid X receptors (RXRs) are nuclear transcription factors that modulate the effects of retinoids (RA) on gene expression. Most retinoid forms (including all *trans* RA, 9-*cis* RA, 4oxo RA and 3,4 dihydro RA) activate RAR family members, whereas RXR family members are activated by 9-*cis*-RA only. RA binds RARs, inducing a change in receptor configuration that allows DNA binding and increased gene transcription from specific genes to occur. RAR family members, which include RAR α , RAR β and RAR γ , belong to the same class of nuclear transcription factors as thyroid hormone receptors, vitamin D3 receptor and ecdysone receptor. Retinoid receptor expression is tissue specific; the skin expresses RAR γ and RXR α . The expression of RAR γ and RXR β is somewhat decreased in lung cancers. The human RAR γ gene maps to chromosome 12q13.13.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Rarg (mouse) mapping to 15 F3.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

RAR γ (m2): 293T Lysate represents a lysate of mouse RAR γ transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

RAR γ (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RAR γ antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

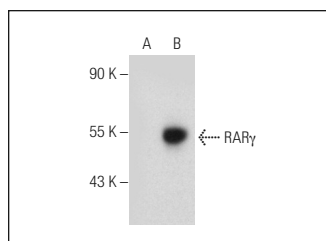
RAR γ (G-1): sc-7387 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse RAR γ expression in RAR γ transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



RAR γ (G-1): sc-7387. Western blot analysis of RAR γ expression in non-transfected: sc-117752 (A) and mouse RAR γ transfected: sc-122976 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.