

TIG2 (K-15): sc-47482

BACKGROUND

Retinoids act through ligand-dependent transcription factors, retinoid X receptor (RXRs) and retinoic acid receptors (RARs). Tazarotene-induced gene proteins (TIG), also designated retinoic acid receptor responder proteins or RAR-responsive proteins, can be membrane bound or secreted. They act as tumor suppressor genes in human cancers and are highly expressed in skin, hair follicles, endothelial cells as well as pancreas, spleen and intestine. TIGs have also been implicated as growth regulators that mediate the growth suppressive effects of retinoids and they are activated by tazarotene. TIG1 is a single pass type II membrane protein activated by tazarotene and RAR proteins. It belongs to the protease inhibitor I47 (latexin) family of proteins. TIG2 is a secreted protein that is mainly expressed in epidermis, hair follicles and endothelial cells. TIG2 is inhibited in psoriatic lesions and is activated by tazarotene in skin rafts and in epidermis of psoriatic lesions. TIG3 acts as a growth regulator as it is important for mediating the growth suppressive effects of retinoids.

CHROMOSOMAL LOCATION

Genetic locus: RARRES2 (human) mapping to 7q36.1.

SOURCE

TIG2 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TIG2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-47482 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

TIG2 (K-15) is recommended for detection of TIG2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TIG2 (K-15) is also recommended for detection of TIG2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for TIG2 siRNA (h): sc-61688, TIG2 shRNA Plasmid (h): sc-61688-SH and TIG2 shRNA (h) Lentiviral Particles: sc-61688-V.

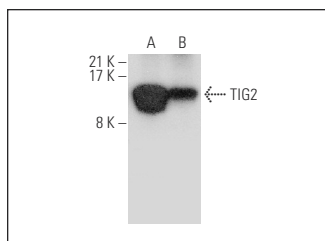
Molecular Weight of TIG2: 19 kDa.

Positive Controls: human heart extract: sc-363763, human lung extract: sc-363767 or human liver extract: sc-363766.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TIG2 (K-15): sc-47482. Western blot analysis of TIG2 expression in human lung (A) and human heart (B) tissue extracts.

SELECT PRODUCT CITATIONS

1. Berg, V., et al. 2010. Human articular chondrocytes express ChemR23 and chemerin; ChemR23 promotes inflammatory signalling upon binding the ligand chemerin. *Arthritis Res. Ther.* 12: R228.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **TIG2 (E-7): sc-373797**, our highly recommended monoclonal alternative to TIG2 (K-15).