**BACKGROUND**

The tetratricopeptide repeat (TPR) motif is a degenerate, 34 amino acid sequence found in many proteins and acts to mediate protein-protein interactions in various pathways. At the sequence level, there can be up to 16 tandem TPR repeats, each of which has a helix-turn-helix shape that stacks on other TPR repeats to achieve ligand binding specificity. IFIT3 (interferon-induced protein with tetratricopeptide repeats 3), also known as IRG2, IFI60, IFIT4, ISG60 or RIG-G, is a 490 amino acid protein that contains eight TPR repeats and may play a role in cell cycle regulation and cellular proliferation. The gene encoding IFIT3 maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie-Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman’s syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

**CHROMOSOMAL LOCATION**

Genetic locus: IFIT3 (human) mapping to 10q23.31.

**SOURCE**

IFIT3 (B-7) is a mouse monoclonal antibody raised against amino acids 286-490 mapping at the C-terminus of IFIT3 of human origin.

**PRODUCT**

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

IFIT3 (B-7) is available conjugated to agarose (sc-393512 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393512 HRP), 200 µg/ml, for WB, IHCIP and ELISA; to either phycoerythrin (sc-393512 PE), fluorescein (sc-393512 FITC), Alexa Fluor® 488 (sc-393512 AF488), Alexa Fluor® 546 (sc-393512 AF546), Alexa Fluor® 594 (sc-393512 AF594) or Alexa Fluor® 647 (sc-393512 AF647), 200 µg/ml, for WB (RGB), IF, IHCIP and FCMB; and to either Alexa Fluor® 680 (sc-393512 AF680) or Alexa Fluor® 790 (sc-393512 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCMB.

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**APPLICATIONS**

IFIT3 (B-7) is recommended for detection of IFIT3 of human origin by Western Blotting (starting dilution 1:100, 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), immunochromatography (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IFIT3 siRNA (h): sc-75326, IFIT3 shRNA Plasmid (h): sc-75326-SH and IFIT3 shRNA (h) Lentiviral Particles: sc-75326-V.

Molecular Weight of IFIT3: 58 kDa.

Positive Controls: Caki-1 cell lysate: sc-2224, SK-MEL-28 cell lysate: sc-2236 or WI-38 whole cell lysate: sc-364260.

**DATA**

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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