**BACKGROUND**

IFIX (interferon-inducible protein X), also known as PYHIN1 (pyrin and HIN domain family, member 1), is a 492 amino acid protein that exists as multiple alternatively spliced isoforms which localize to different regions within the nucleus. Expressed in lymph node, spleen, bone marrow and thymus, IFIX contains one HIN-200 domain and one DAPIN domain, and functions as a major mediator of interferon (IFN) tumor suppressor activity in breast cancer cells. Additionally, IFIX promotes the ubiquitination and subsequent degradation of HDAC1 and MDM2, thereby stabilizing p53 and impairing the invasive activity of cancer cells. The gene encoding IFIX maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PYHIN1 (human) mapping to 1q23.1.

**SOURCE**

IFIX (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IFIX 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-160443 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**STORAGE**

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

**APPLICATIONS**

IFIX (T-13) is recommended for detection of IFIX isoforms α1, α2, β1, β2, γ1 and γ2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for IFIX siRNA (h): sc-88428, IFIX shRNA Plasmid (h): sc-88428-SH and IFIX shRNA (h) Lentiviral Particles: sc-88428-V. 

Molecular Weight of IFIX: 55 kDa.

**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: 1:200-1:100,000) 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) 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.

**RESEARCH USE**

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