**BACKGROUND**

WDFY4 (WD repeat- and FYVE domain-containing protein 4), also known as C10orf64 or KIAA1607, is a 3,184 amino acid multi-pass membrane protein that contains one BEACH (beige and chediak-higashi) domain and 5 WD repeats. WDFY4 is highly conserved and is expressed predominately in primary and secondary immune tissues, as well as spleen, lung, kidney, brain, spinal cord and fetal liver. Variants present in WDFY4 may be associated with systemic lupus erythematosus, however the function of WDFY4 is still unknown. Existing as five alternatively spliced isoforms, WDFY4 is encoded by a gene that maps to human chromosome 10q11.22.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: WDFY4 (human) mapping to 10q11.22; Wdfy4 (mouse) mapping to 14 B.

**SOURCE**

WDFY4 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of WDFY4 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-244606 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**

WDFY4 (T-18) is recommended for detection of WDFY4 of mouse, rat and 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); non cross-reactive with WDFY1, WDFY2 or WDFY3.

WDFY4 (T-18) is also recommended for detection of WDFY4 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of WDFY4 isoforms 1/2/3: 354/73/115 kDa.

Molecular Weight of WDFY4 isoforms 4/5: 353/325 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: 1:2000-1:100,000) 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) 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.

**PROTOCOLS**

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