# TMEM196 (F-16): sc-248960



The Power to Question

#### **BACKGROUND**

TMEM196 is an 89 amino acid protein encoded by a gene mapping to human chromosome 7. Chromosome 7 is about 158 milllion bases long, encodes over 1000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

## **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: TMEM196 (human) mapping to 7p21.1; Tmem196 (mouse) mapping to 12 F2.

#### **SOURCE**

TMEM196 (F-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TMEM196 of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-248960 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

TMEM196 (F-16) is recommended for detection of TMEM196 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 other TMEM family members.

TMEM196 (F-16) is also recommended for detection of TMEM196 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for TMEM196 siRNA (h): sc-89771, TMEM196 siRNA (m): sc-154432, TMEM196 shRNA Plasmid (h): sc-89771-SH, TMEM196 shRNA Plasmid (m): sc-154432-SH, TMEM196 shRNA (h) Lentiviral Particles: sc-89771-V and TMEM196 shRNA (m) Lentiviral Particles: sc-154432-V.

Molecular Weight of TMEM196 isoforms 1/2/3/4: 19/12/10/18 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.

#### **STORAGE**

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

## **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.

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