

WFIKKN (Q-17): sc-83485

BACKGROUND

WFIKKN (WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 1), also known as WFIKKN1, is a secreted multi-domain protein. It is expressed in adult pancreas, liver, kidney and thymus and fetal lung, skeletal muscle and liver. WFIKKN contains a whey acidic protein (WAP) domain, a follistatin (FS) domain, an immunoglobulin (Ig) domain, two Kunitz (KU) domains and a netrin domain. The FS, WAP and KU domains are frequently involved in inhibition of serine proteases. This suggests that WFIKKN may be a multi-domain serine protease and metalloproteinase inhibitor. In particular, WFIKKN may regulate Trypsin activity.

REFERENCES

1. Trexler, M., et al. 2001. A human protein containing multiple types of protease-inhibitory modules. *Proc. Natl. Acad. Sci. USA* 98: 3705-3709.
2. Trexler, M., et al. 2002. Distinct expression pattern of two related human proteins containing multiple types of protease-inhibitory modules. *Biol. Chem.* 383: 223-228.
3. Nagy, A., et al. 2003. Expression, purification and characterization of the second Kunitz-type protease inhibitor domain of the human WFIKKN protein. *Eur. J. Biochem.* 270: 2101-2107.
4. Hill, J.J., et al. 2003. Regulation of myostatin *in vivo* by growth and differentiation factor-associated serum protein-1: a novel protein with protease inhibitor and follistatin domains. *Mol. Endocrinol.* 17: 1144-1154.
5. Bernocco, S., et al. 2003. Low resolution structure determination shows procollagen C-proteinase enhancer to be an elongated multidomain glycoprotein. *J. Biol. Chem.* 278: 7199-7205.

CHROMOSOMAL LOCATION

Genetic locus: WFIKKN1 (human) mapping to 16p13.3; Wfikkn1 (mouse) mapping to 17 A3.3.

SOURCE

WFIKKN (Q-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WFIKKN 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-83485 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.

PROTOCOLS

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

APPLICATIONS

WFIKKN (Q-17) is recommended for detection of WFIKKN of mouse, rat and 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).

WFIKKN (Q-17) is also recommended for detection of WFIKKN in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for WFIKKN siRNA (h): sc-72395, WFIKKN siRNA (m): sc-76926, WFIKKN shRNA Plasmid (h): sc-72395-SH, WFIKKN shRNA Plasmid (m): sc-76926-SH, WFIKKN shRNA (h) Lentiviral Particles: sc-72395-V and WFIKKN shRNA (m) Lentiviral Particles: sc-76926-V.

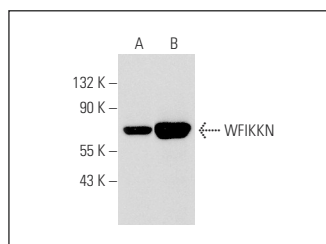
Molecular Weight of WFIKKN: 59 kDa.

Positive Controls: mouse placenta extract: sc-364247 or mouse lung extract: sc-2390.

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



WFIKKN (Q-17): sc-83485. Western blot analysis of WFIKKN expression in mouse placenta (A) and mouse lung (B) tissue extracts.

RESEARCH USE

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