

# FLJ23356 (G-18): sc-87126

## BACKGROUND

Serine/threonine protein kinases possess a catalytic subunit which transfers the  $\gamma$  phosphate from nucleotide triphosphates to one or more amino acid residue in a protein substrate side chain, resulting in a conformational change that affects protein function. Serine/threonine kinases play a role in various cellular processes, including division, proliferation, differentiation and apoptosis. The catalytic subunits of serine/threonine kinases are highly conserved between species. FLJ23356, also known as sugen kinase 196, SGK196 or protein kinase-like protein SgK196, is a 350 amino acid protein that belongs to the serine/threonine protein kinase family. FLJ23356 is thought to have a kinase domain that is catalytically inactive. It has been suggested that FLJ23356 may have a glycine-to-serine substitution motif at subdomain VII of its catalytic domain.

## REFERENCES

- Hanks, S.K., et al. 1988. The protein kinase family: conserved features and deduced phylogeny of the catalytic domains. *Science* 241: 42-52.
- Hanks, S.K., et al. 1991. Protein kinase catalytic domain sequence database: identification of conserved features of primary structure and classification of family members. *Meth. Enzymol.* 200: 38-62.
- Hanks, S.K., et al. 1995. Protein kinases 6. The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification. *FASEB J.* 9: 576-596.
- Manning, G., et al. 2002. Evolution of protein kinase signaling from yeast to man. *Trends Biochem. Sci.* 27: 514-520.
- Stout, T.J., et al. 2004. High-throughput structural biology in drug discovery: protein kinases. *Curr. Pharm. Des.* 10: 1069-1082.
- Li, B., et al. 2004. Creating chemical diversity to target protein kinases. *Comb. Chem. High Throughput Screen.* 7: 453-472.
- Jaleel, M., et al. 2007. LRRK2 phosphorylates Moesin at Threonine 558: characterization of how Parkinson's disease mutants affect kinase activity. *Biochem. J.* 405: 307-317.

## CHROMOSOMAL LOCATION

Genetic locus: FLJ23356 (human) mapping to 8p11.21; Flj23356 (mouse) mapping to 8 A2.

## SOURCE

FLJ23356 (G-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of FLJ23356 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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

## APPLICATIONS

FLJ23356 (G-18) is recommended for detection of FLJ23356 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

FLJ23356 (G-18) is also recommended for detection of FLJ23356 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for FLJ23356 siRNA (h): sc-77530, FLJ23356 shRNA Plasmid (h): sc-77530-SH and FLJ23356 shRNA (h) Lentiviral Particles: sc-77530-V.

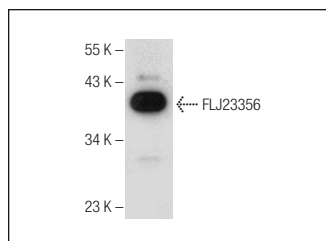
Molecular Weight of FLJ23356: 40 kDa.

Positive Controls: Mouse liver extract: sc-2256 or HeLa whole cell lysate: sc-2200.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



FLJ23356 (G-18): sc-87126. Western blot analysis of FLJ23356 expression in mouse liver tissue extract.

## 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.