

# KSP37 (D-5): sc-374010

## BACKGROUND

KSP37 (37 kDa killer-specific secretory protein), also known as FGFBP2 (fibroblast growth factor binding protein 2), is a 223 amino acid protein that is secreted into the extracellular space and belongs to the fibroblast growth factor-binding protein family. Expressed in serum, as well as in cytotoxic T lymphocytes and peripheral leukocytes, KSP37 is thought to be involved in lymphocyte-mediated immunity, possibly playing a role in the development of asthma. The gene encoding KSP37 maps to human chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes. Defects in some of the genes located on chromosome 4 are associated with Huntington's disease, Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

## REFERENCES

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- Hayano, C., Koi, H., Ogawa, K., Nagata, K., Matsumoto, Y., Nakamura, M. and Aso, T. 2002. Accumulation of CD16<sup>+</sup> cells with secretion of KSP37 in decidua at the end of pregnancy. *Am. J. Reprod. Immunol.* 48: 57-62.
- Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 607713. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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- Kuepper, M., Bratke, K., Julius, P., Ogawa, K., Nagata, K., Luttmann, W. and Virchow, J.C. 2005. Increase in killer-specific secretory protein of 37 kDa in bronchoalveolar lavage fluid of allergen-challenged patients with atopic asthma. *Clin. Exp. Allergy* 35: 643-649.

## CHROMOSOMAL LOCATION

Genetic locus: FGFBP2 (human) mapping to 4p15.32.

## SOURCE

KSP37 (D-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 21-50 near the N-terminus of KSP37 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-374010 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## APPLICATIONS

KSP37 (D-5) is recommended for detection of KSP37 of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for KSP37 siRNA (h): sc-75399, KSP37 shRNA Plasmid (h): sc-75399-SH and KSP37 shRNA (h) Lentiviral Particles: sc-75399-V.

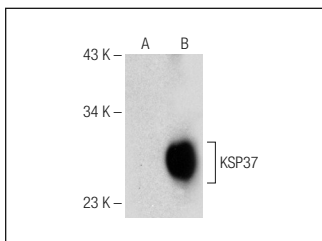
Molecular Weight of KSP37: 24 kDa.

Positive Controls: KSP37 (h3): 293T Lysate: sc-114210 or Daudi cell lysate: sc-2415.

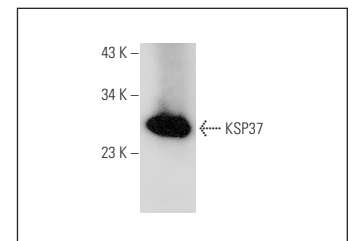
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



KSP37 (D-5): sc-374010. Western blot analysis of KSP37 expression in non-transfected: sc-117752 (A) and human KSP37 transfected: sc-114210 (B) 293T whole cell lysates.



KSP37 (D-5): sc-374010. Western blot analysis of KSP37 expression in Daudi whole cell lysate.

## 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](http://www.scbt.com) for detailed protocols and support products.