

# IGF2BP2 (N-13): sc-99463

## BACKGROUND

IGF2BP2 (Insulin-like growth factor 2 mRNA binding protein 2) is also known as IGF2 mRNA-binding protein 2, IMP-2 (IGF-II mRNA-binding protein 2), VICKZ family member 2 or hepatocellular carcinoma autoantigen p62 and is a 556 amino acid protein. IGF2BP2 is expressed in a variety of tissues including heart, placenta, skeletal muscle, pancreas, fetal liver, lung, kidney, thymus and gonadal cells. IGF2BP2 is an RNA binding protein which may be involved in the regulation of mRNA translation and may also function to control the spatial localization of target mRNAs. Antibodies against IGF2BP2 have been detected in patients with HCC (hepatocellular carcinoma), suggesting that IGF2BP2 may have a role in the pathogenesis of HCC. Defects in IGF2BP2 are thought to be associated with susceptibility to type 2 diabetes mellitus.

## REFERENCES

- Zhang, J.Y., et al. 1999. A novel cytoplasmic protein with RNA-binding motifs is an autoantigen in human hepatocellular carcinoma. *J. Exp. Med.* 189: 1101-1110.
- Nielsen, J., et al. 1999. A family of Insulin-like growth factor II mRNA-binding proteins represses translation in late development. *Mol. Cell. Biol.* 19: 1262-1270.
- Brants, J.R., et al. 2004. Differential regulation of the Insulin-like growth factor II mRNA-binding protein genes by architectural transcription factor HMGA2. *FEBS Lett.* 569: 277-283.
- Yisraeli, J.K. 2005. VICKZ proteins: a multi-talented family of regulatory RNA-binding proteins. *Biol. Cell* 97: 87-96.
- Hammer, N.A., et al. 2005. Expression of IGF-II mRNA-binding proteins (IMPs) in gonads and testicular cancer. *Reproduction* 130: 203-212.
- Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 608289. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: IGF2BP2 (human) mapping to 3q27.2; Igf2bp2 (mouse) mapping to 16 B1.

## SOURCE

IGF2BP2 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of IGF2BP2 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99463 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-99463 X, 100 µg/0.1 ml.

## APPLICATIONS

IGF2BP2 (N-13) is recommended for detection of IGF2BP2 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); non cross-reactive with family member IGF2AS.

IGF2BP2 (N-13) is also recommended for detection of IGF2BP2 in additional species, including bovine.

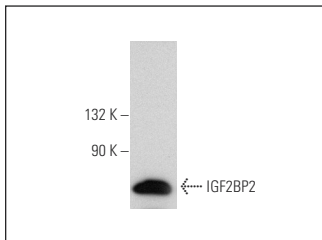
Suitable for use as control antibody for IGF2BP2 siRNA (h): sc-78065, IGF2BP2 siRNA (m): sc-146180, IGF2BP2 shRNA Plasmid (h): sc-78065-SH, IGF2BP2 shRNA Plasmid (m): sc-146180-SH, IGF2BP2 shRNA (h) Lentiviral Particles: sc-78065-V and IGF2BP2 shRNA (m) Lentiviral Particles: sc-146180-V.

IGF2BP2 (N-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

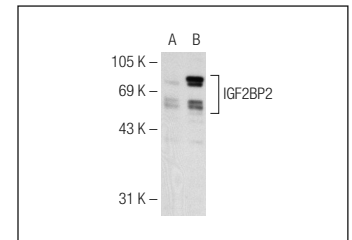
Molecular Weight of IGF2BP2: 62 kDa.

Positive Controls: IGF2BP2 (h2): 293T Lysate: sc-174608 or Hep G2 cell lysate: sc-2227.

## DATA



IGF2BP2 (N-13): sc-99463. Western blot analysis of IGF2BP2 expression in 293T whole cell lysate.



IGF2BP2 (N-13): sc-99463. Western blot analysis of IGF2BP2 expression in non-transfected: sc-117752 (A) and human IGF2BP2 transfected: sc-174608 (B) 293T whole cell lysates.

## 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.

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Try **IGF2BP2 (F-12): sc-377014**, our highly recommended monoclonal alternative to IGF2BP2 (N-13).