

JAKMIP2 (G-2): sc-393578

BACKGROUND

JAKMIP2 (janus kinase and microtubule-interacting protein 2), also known as NECC1 (neuroendocrine long coiled-coil protein 1), CTCL tumor antigen HD-CL-04, JAMIP2 or KIAA0555, is a 810 amino acid protein belonging to the JAKMIP family. Localizing to the Golgi apparatus, JAKMIP2 is highly expressed in brain, with moderate levels of expression found in thymus, spleen and lung. Existing as three alternatively spliced isoforms, the gene encoding JAKMIP2 maps to human chromosome 5q32 and mouse chromosome 18 B3. Chromosome 5 contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

1. Edwards, S.J., et al. 1997. The mutational spectrum in Treacher Collins syndrome reveals a predominance of mutations that create a premature-termination codon. *Am. J. Hum. Genet.* 60: 515-524.
2. McDaniel, L.D., et al. 1997. Confirmation of homozygosity for a single nucleotide substitution mutation in a Cockayne syndrome patient using monoallelic mutation analysis in somatic cell hybrids. *Hum. Mutat.* 10: 317-321.
3. Crawford, M.J., et al. 1997. Human and murine PTX1/Ptx1 gene maps to the region for Treacher Collins syndrome. *Mamm. Genome* 8: 841-845.
4. Finch, R., et al. 2005. Familial adenomatous polyposis and mental retardation caused by a *de novo* chromosomal deletion at 5q15-q22: report of a case. *Dis. Colon Rectum* 48: 2148-2152.
5. Lae, M., et al. 2007. Global gene expression profiling of PAX-FKHR fusion-positive alveolar and PAX-FKHR fusion-negative embryonal rhabdomyosarcomas. *J. Pathol.* 212: 143-151.

CHROMOSOMAL LOCATION

Genetic locus: JAKMIP2 (human) mapping to 5q32; Jakmip2 (mouse) mapping to 18 B3.

SOURCE

JAKMIP2 (G-2) is a mouse monoclonal antibody raised against amino acids 377-416 mapping within an internal region of JAKMIP2 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

JAKMIP2 (G-2) is available conjugated to agarose (sc-393578 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393578 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393578 PE), fluorescein (sc-393578 FITC), Alexa Fluor® 488 (sc-393578 AF488), Alexa Fluor® 546 (sc-393578 AF546), Alexa Fluor® 594 (sc-393578 AF594) or Alexa Fluor® 647 (sc-393578 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393578 AF680) or Alexa Fluor® 790 (sc-393578 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

JAKMIP2 (G-2) is recommended for detection of JAKMIP2 of mouse, rat and 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).

JAKMIP2 (G-2) is also recommended for detection of JAKMIP2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for JAKMIP2 siRNA (h): sc-92029, JAKMIP2 siRNA (m): sc-146317, JAKMIP2 shRNA Plasmid (h): sc-92029-SH, JAKMIP2 shRNA Plasmid (m): sc-146317-SH, JAKMIP2 shRNA (h) Lentiviral Particles: sc-92029-V and JAKMIP2 shRNA (m) Lentiviral Particles: sc-146317-V.

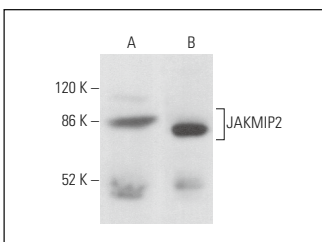
Molecular Weight of JAKMIP2 isoforms 1/2/3: 95/92/96 kDa.

Positive Controls: SK-N-MC cell lysate: sc-2237, Jurkat whole cell lysate: sc-2204 or BYDP whole cell lysate: sc-364368.

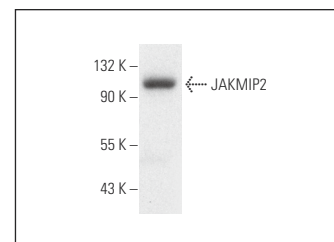
RECOMMENDED SUPPORT REAGENTS

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, UltraCruz® Blocking Reagent: sc-516214 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



JAKMIP2 (G-2): sc-393578. Western blot analysis of JAKMIP2 expression in Jurkat (A) and BYDP (B) whole cell lysates.



JAKMIP2 (G-2): sc-393578. Western blot analysis of JAKMIP2 expression in SK-N-MC 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.

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