**BACKGROUND**

MAB21L (mab-21-like 1), also known as CAGR1, is a 359 amino acid nuclear protein expressed in cerebellum and skeletal muscle. A member of the mab21 family, MAB21L is required for several aspects of embryonic development including normal development of the eye and cerebellum. MAB21L is similar to the MAB21 cell fate-determining gene found in Caenorhabditis elegans, and it is suggested that the expansion of a trinucleotide repeat region in the 5' UTR of MAB21L may play a role in a variety of psychiatric disorders. MAB21L is encoded by a gene located on human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is a deadly syndrome associated with chromosome 13. The few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MAB21L1 (human) mapping to 13q13.3, MAB21L2 (human) mapping to 3 F1. MAB21L is encoded by a gene located on human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is a deadly syndrome associated with chromosome 13. The few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

**SOURCE**

MAB21L (A-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 176-214 within an internal region of MAB21L1 of human origin.

**PRODUCT**

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

MAB21L (A-7) is available conjugated to agarose (sc-393017 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393017 HRP), 200 µg/ml, for WB, IHC/P and ELISA; to either phycoerythrin (sc-393017 PE), fluorescein (sc-393017 FITC), Alexa Fluor® 488 (sc-393017 AF488), Alexa Fluor® 546 (sc-393017 AF546), Alexa Fluor® 594 (sc-393017 AF594) or Alexa Fluor® 647 (sc-393017 AF647), 200 µg/ml, for WB (RGB), IF, IHC/P and FCM; and to either Alexa Fluor® 680 (sc-393017 AF680) or Alexa Fluor® 790 (sc-393017 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competitive studies, sc-393017 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

MAB21L (A-7) is recommended for detection of MAB21L1 and MAB21L2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:10000), 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).


Molecular Weight of MAB21L: 38 kDa.

Positive Controls: MAB21L (h): 293T Lysate: sc-174549.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

**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.