



Mouse Anti-human LCRMP4 Antibody Datasheet

Product Name: mAb anti-LCRMP4

Clone No.: 5H5

Catalogue No.: MO-M40101A

Quantity:

Description: Mouse monoclonal antibody against the long isoform of human Collapsin Response Mediator Protein 4 (LCRMP4).

Product Type: Primary antibody, can be used as **capture antibody** in immunoassay

Purification: Protein G affinity purified

Target Protein: Human LCRMP4

Immunogen: The N-terminal 127 amino acids of LCRMP4. Below is the amino acid sequence:
 masgrrgdssheddlpvylarpgtttdqvprqkyggmfc
 nvegafesktldfdalsvgqrgaktprsgqgsdrsgsrpgie
 gdtprrgqreesrepapasapagveirsatgkevlqnlg
 pkdk

Fusion Myeloma: Sp2/0-Ag14

Specificity: LCRMP4

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized in a 0.01M pH7.2 phosphate buffer solution

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00 mg/mL.

Storage: Store at -20°C

Research Area: Neurology. Prostate cancer.

Background: CRMP4 belongs to the collapsin response mediator protein (CRMP) family that includes CRMP 1-5. CRMPs are highly expressed in

the nervous system during brain development. It is also found that CRMP4 is inversely associated with lymph node metastasis of prostate cancers and that the methylation of the CpG island within the promoter region of CRMP4 gene down-regulates CRMP4 expression (Xin Gao et al. 2010; Ke Li et al. 2015). Recently, Dr. Xin Gao's lab found that a long-form CRMP4 (LCRMP4) is potentially useful as a serum biomarker for prostate cancers.

Applications:

ELISA & Chemiluminescence Assay

In combination with biotin conjugated antibody clone 2H7, clone 5H5 can be used as capture antibody for quantitative detection of LCRMP4 in sandwich ELISA and chemiluminescence assay. The assay range is around 2500pg/mL to 19pg/mL.

References:

Xin Gao et al. Expression profiling identifies new function of collapsin response mediator protein 4 as a metastasis-suppressor in prostate cancer. *Oncogene*. 2010, 29, 4555–4566

Ke Li et al. Manipulation of prostate cancer metastasis by locus-specific modification of the CRMP4 promoter region using chimeric TALE DNA methyltransferase and demethylase. *Oncotarget*. 2015, 6(12), 10030-10044

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