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HGNC Name: PLS1 UniProt: Q14651 RRID: Pending Immunogen: Recombinant human L-plastin expressed in and purified from E. coli Format: Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN<sub>3</sub> Storage: Shipped on ice. Store at 4°C for short term, for longer term at -20°C. Avoid freeze / thaw cycles. Recommended dilutions: WB: 1:1,000-1:2,000. ICC/IF: 1:1,000 IHC:

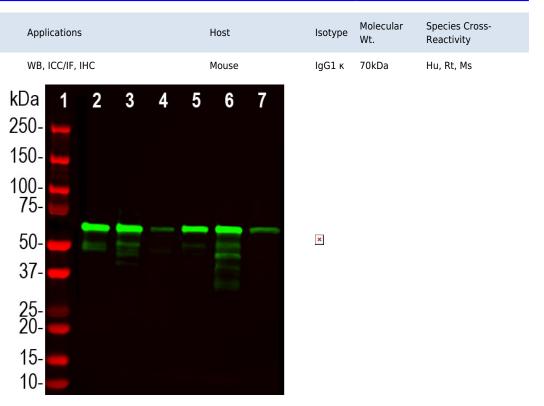
#### **References:**

1. Bretscher A and Weber K. Fimbrin, a new microfilament-associated protein present in microvilli and other cell surface structures. J Cell Biol . 1980 86:335-40. doi:

10.1083/jcb.86.1.335 (1980). 2. VDelanote V, Vandekerckhove J and Gettemans J. Plastins: versatile modulators of actin organization in (patho)physiological cellular processes. Acta Pharm Sin 26:769–779 (2005).

3, Shinomiya S. Plastin Family of Actin-Bundling Proteins: Its Functions inLeukocytes, Neurons, Intestines, and Cancer. Int J Cell Biol Article ID 213492, (2012).

# L Plastin Mouse Monoclonal Antibody



Western blot analysis of tissue lysates using mouse mAb to L-Plastin, MCA-5F101, dilution 1:2,000 in green: [1] protein molecular weight standard and extracts of [2] mouse lung, [3] mouse spleen, [4] mouse brain, [5] rat lung, [6] rat spleen and [7] rat brain. MCA-5F101 antibody reveals L-Plastin protein with apparent molecular weight of 70 kDa.

### **Background:**

L-Plastin is member of the plastin family of proteins which includes two other proteins, I-plastin and T-plastin. I-plastin was originally discovered in the fimbria or brush border of the intestine localized in the actin containing microvilli (1). It was therefore originally named fimbrin and later found in many other tissues in association with actin, most notably in the stereocilia important for hearing and proprioception. The plastin proteins all have the ability to bind actin and Calcium ions, containing two EF hand sites close to the N-terminus and 4 calponin homology domains towards the C-terminus. EF hands are compact Calcium ion binding sites found in molecukes such as parvalbumin, calmodulin and many others. Pairs of calponin homology domains form binding sites for actin molecules and are found in  $\alpha$ -actinin and many other cytoskeletal proteins. The MCA-5F101 antibody was made against a recombinant full length human I-Plastin sequence in NP\_001138791.1 expressed in and purified from E. coli. The antibody works well on western blots of various tissues, cleanly producing the appropriate sized band.

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#### Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dr—D. rerio Dm—D. melanogaster Sm—S. mutans Ce—C. elegans Sc—S. cerevisiae Sa—S. aureus Ec—E. coli.

## MCA-5F101