

### Ordering Information

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**HGNC name:** VIM

**RRID:** [AB\\_2572396](https://identifiers.org/AB_2572396)

**Immunogen:** Recombinant human vimentin 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:** Store at 4°C for short term, for longer term at -20°C. Avoid freeze / thaw cycles.

**Recommended dilutions:**

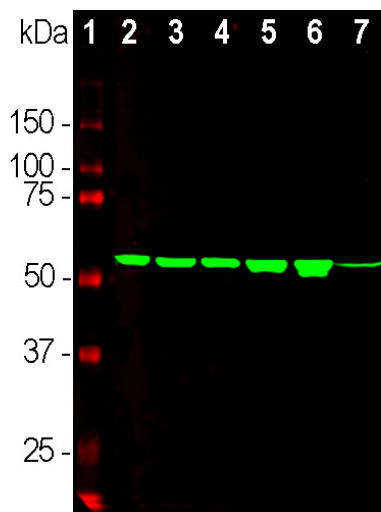
WB: 1:10,000.

IF/ICC and IHC: 1:1,000.

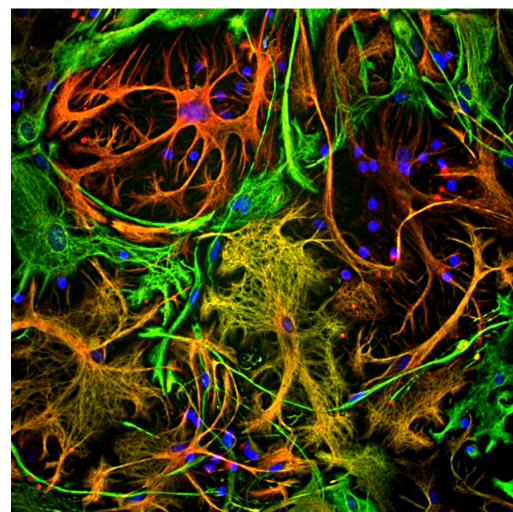
### References:

1. Franke, W. W., Schmid, E., Osborn, M. and Weber, K. Different intermediate-sized filaments distinguished by immunofluorescence microscopy. *Proc. Natl. Acad. Sci. USA* 75:5034–5038 (1978).
2. Muller, M., Bhattacharya, S. S., Moore, T., Prescott, Q., Wedig, T., Herrmann, H., Magin, T. M. Dominant cataract formation in association with a vimentin assembly disrupting mutation. *Hum. Molec. Genet.* 18:1052-1057 (2009).

Applications	Host	Isotype	Molecular Wt.	Species Cross-Reactivity
WB, IF/ICC, IHC	Mouse	IgG1	50kDa	Hu, Rt, not Ms



Western blot analysis of cell and whole brain tissue lysates using mouse mAb to vimentin, MCA-2A52, dilution 1:5,000 in green: [1] protein standard (red), [2] HEK293, [3] HeLa, [4] COS-1, [5] C6 cells, and [6] rat brain. The band at about 50kDa mark corresponds to vimentin. The antibody does not recognize murine vimentin (not shown).



Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with mouse mAb to vimentin, MCA-2A52, dilution 1:5,000 in green, and costained with rabbit pAb to glial fibrillary acidic protein (GFAP), RPCA-GFAP, dilution 1:5,000 in red. The blue is DAPI staining of nuclear DNA. Fibroblastic, microglial and developing astrocytic cells contain only vimentin, and so appear green. Maturing astrocytic cells contain variable amounts of GFAP and vimentin, and so may appear red or yellow.

**Background:** Antibodies to vimentin are useful in studies of stem cells and generally to reveal the filamentous cytoskeleton. The immunogen used to generate our antibody was recombinant human vimentin expressed in and purified from *E. coli*. The same immunogen was used to produce our other monoclonal antibody to vimentin [MCA-2D1](#). We also market a very popular chicken polyclonal antibody to vimentin, [CPCA-Vim](#). Both monoclonal antibodies bind to a region in the C-terminal "tail" region of vimentin included in the peptide SRISLPLPNFSSLNREL, which is conserved in rat, cow, pig and most other species. Interestingly mouse has the peptide SRISLPLPTFSSLNREL, and neither MCA-2A52 nor MCA-2D1 bind this peptide. As a result these antibodies can be used to identify human or rat cells in mouse cultures or tissues.

**FOR RESEARCH USE ONLY. NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE.**

#### 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 Bo—Cow Po—Pig Ho—Horse Ch—Chicken Dr—*D. rerio* Dm—*D. melanogaster* Ce—*C. elegans* Sc—*S. cerevisiae* Sa—*S. aureus* Ec—*E. coli*.