

Mouse anti-Horseradish Peroxidase (HRP) (MAP A6-2), #MM-0012-P

DATASHEET

Product name: Horseradish Peroxidase (HRP) antibody

Background information: Horseradish peroxidase (HRP) is a 40kDa glycoprotein with four lysine residues. In the presence of hydrogen peroxide, HRP will oxidize a substrate to yield a detectable signal useful for techniques such as ELISA and immunohistochemistry. A monoclonal mouse anti-peroxidase antibody is a very useful and reliable reagent for the localization of a number of mouse primary antibodies by peroxidase anti-peroxidase (PAP) immunocytochemistry.

Product description: A sensitive antibody against horseradish peroxidase (HRP). This antibody was raised against the full horseradish peroxidase (HRP) protein.

Format: 100 µg of lyophilized, purified antibody. **Reconstitute in 100 µl of distilled H₂O for a 1 µg/µl solution.** It contains no additives.

Species: Mouse

Clonality: Monoclonal

Isotype: IgG1

Reactivity / specificity: The antibody recognizes HRP. Specific for: HRP.

Applications: Immunohistochemistry (IHC), Electron Microscopy Immunocytochemistry (EM)

Recommended starting dilutions: If reconstituted in 100 µl: IHC 1:30 - 1:60. Optimal dilution has to be determined by the user.

Storage: Lyophilized antibody can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage. To avoid freeze-thaw cycles, reconstituted antibody should be aliquoted before freezing for short-term storage (-20°C) or for long-term storage (-80°C). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer.

Stability: Minimum 1 year from reception date.

References:

1. Ferretti, M.T., Bruno, M.A., Ducatenzeiler, A., Klein, W.L., and Cuellar, A.C. (2012). Intracellular Abeta -oligomers and early inflammation in a model of Alzheimer's disease. *Neurobiol Aging* 33, 1329-1342.
2. Iulita, M.F., Allard, S., Richter, L., Munter, L.-M., Ducatenzeiler, A., Weise, C., Carmo, S.D., Klein, W.L., Multhaup, G., and Cuellar, A.C. (2014). Intracellular Aβ pathology and early cognitive impairments in a transgenic rat overexpressing human amyloid precursor protein: a multidimensional study. *Acta Neuropathol Commun* 2, 61.
3. Lorenzo, L.-E., Godin, A.G., Wang, F., St-Louis, M., Carbonetto, S., Wiseman, P.W., Ribeiro-da-Silva, A., and Koninck, Y.D. (2014). Gephyrin clusters are absent from small diameter primary afferent terminals despite the presence of GABA(A) receptors. *J Neurosci* 34, 8300-8317.

4. Semenenko, F., Bramwell, S., Sidebottom, E., and Cuello, A. (1985). Development of a mouse antiperoxidase secreting hybridoma for use in the production of a mouse PAP complex for immunocytochemistry and as a parent cell line in the development of hybrid hybridomas. *Histochemistry* 83, 405-408.

Limitations: This product is to be used for research purposes only.