

# Product Data Sheet

## Purified anti-Microtubule Associated Protein 2ab (MAP2ab)

**Catalog # / Size:** 631101 / 25 µg  
631102 / 100 µg

**Clone:** MT-08

**Isotype:** Mouse IgG1, κ

**Immunogen:** Microtubule protein enriched for kinesin

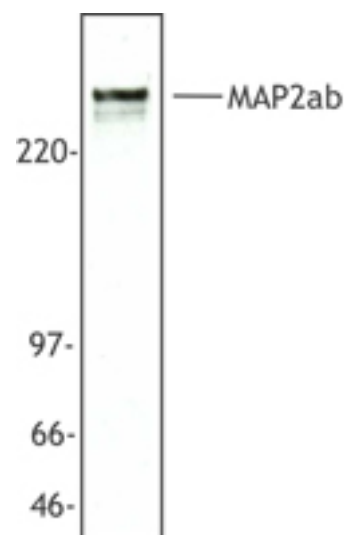
**Reactivity:** Human, Porcine, Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.

**Concentration:** 0.5 mg/ml

**Storage:** Upon receipt, store undiluted at 4°C.



Mouse brain tissue extract was resolved by electrophoresis, transferred nitrocellulose, and probed with monoclonal anti-MAP2ab (clone MT-08) antibody. Proteins were visualized using HRP goat anti-mouse IgG and a chemiluminescence detection system.

## Applications:

**Applications:** WB - *Quality tested*  
IP, IHC, ICC, ELISA - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

**Description:** Microtubule associated protein 2 also known as MAP2, has three isoforms that include two high molecular weight forms MAP2A and MAP2B (~280KD), and a low molecular weight form MAP2C (~70KD). MAP2 belongs to the microtubule-associated protein family and expressed in the nervous system. The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules. MAP2 has been shown to interact with Fyn, Grb2, PRKACA, and CPEB1. The MT-08 antibody has been shown to be useful for Western blotting, Immunoprecipitation, Immunohistochemistry (frozen sections), Immunocytochemistry, and ELISA of the human, mouse and porcine MAP2A and MAP2B isoforms.

**Antigen References:** 1. Garner CC, *et al.* 1988. *Nature* 336:674.  
2. Kindler S, *et al.* 1994. *Molec. Brain Res.* 26:218.  
3. Chang L, *et al.* 2003. *Dev. Cell* 4:521.

### Related Products:

**Product**  
Purified Mouse IgG1, κ Isotype Ctrl  
HRP Goat anti-mouse IgG (minimal x-reactivity)

**Clone**  
MOPC-21  
Poly4053

**Application**  
FC, ICFC, ICC, IF, IHC, IP, WB  
ELISA, IHC, WB



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