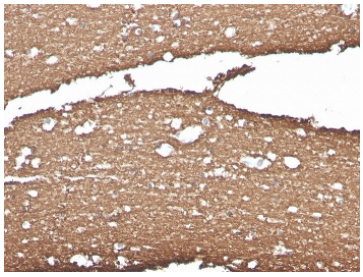
# Myelin Basic Protein Antibody [clone MBP/4275] (V8679)

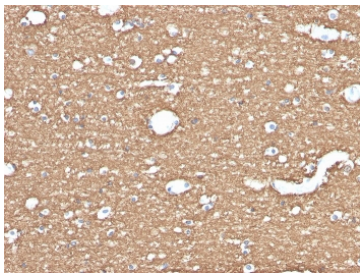
| Catalog No. | Formulation | Size |
|---|---|---|
| V8679-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8679-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8679SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | MBP/4275 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P02686 |
| **Localization** | Cytoplasm |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT |
| **Limitations** | This Myelin Basic Protein antibody is available for research use only. |



IHC staining of FFPE human brain with Myelin Basic Protein antibody (clone MBP/4275). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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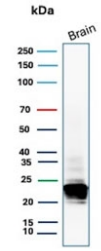
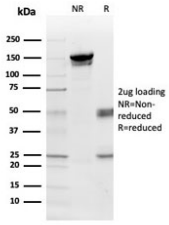



Western blot testing of human brain lysate with Myelin Basic Protein antibody (clone MBP/4275). Isoforms may be visualized from 20~37 kDa.




SDS-PAGE analysis of purified, BSA-free Myelin Basic Protein antibody (clone MBP/4275) as confirmation of integrity and purity.

## Description

Myelin basic protein (MBP) is the second most abundant protein in central nervous system (CNS) myelin: it comprises 30% of the total protein and about 10% of the dry weight of myelin. It is the only structural protein found so far to be essential for formation of CNS myelin, and has been called the executive molecule of myelin . MBP can interact with a number of polyanionic proteins including actin, tubulin, calmodulin, and clathrin, and negatively charged lipids, and acquires structure on binding to them. It may act as a membrane actin-binding protein, which might allow it to participate in transmission of extracellular signals to the cytoskeleton in oligodendrocytes and tight junctions in myelin. MBP may be applicable as a marker for oligodendrogliomas. MBP/4275 is used in clinical diagnostics to detect MBP levels or myelination in human MBP. MBP/4275 is used in a two-site ELISA with clone MBP/4273. Both are used interchangeably as capture and detection antibody.

For broader research on myelin structure and MBP expression, see our Myelin Basic Protein Antibody / CNS Myelin Marker page.

## Application Notes

Optimal dilution of the Myelin Basic Protein antibody should be determined by the researcher.

## Immunogen

Recombinant human Myelin Basic Protein was used as the immunogen for this Myelin Basic Protein antibody.)

## Storage

Store the Myelin Basic Protein antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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