



### Cat nr AE00178

Mouse Monoclonal Antibody, clone GFAP/2076 to:

### GFAP

glial fibrillary acidic protein; ALXDRD; GFAP

Cellular localization                      Cytoplasm, intermediate filament

Official Symbol (Gene)                    GFAP  
 GenelD                                        2670  
 SwissProt                                    P14136

Confirmed Applications                    IHC, PA  
 Positive controls                        Astrocytes, astrocytoma, brain

Aeonian Rating©                         81

Purification                                By Protein G from bioreactor concentrate  
 Formulation                                 200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)  
     1mg IgG/ml in PBS (100ug or contact us for quotation)  
 Amount                                       20ug                                     100ug  
 Isotype                                        Mouse IgG1, kappa  
 Confirmed species reactivity            Human  
 Immunogen                                 Recombinant fragment around aa 101-200 of human GFAP protein  
    (exact sequence is proprietary)  
 Epitope                                        Within aa 101-200 region

Storage instructions                      Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.

Expiration                                  Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.

Warranty                                      This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.

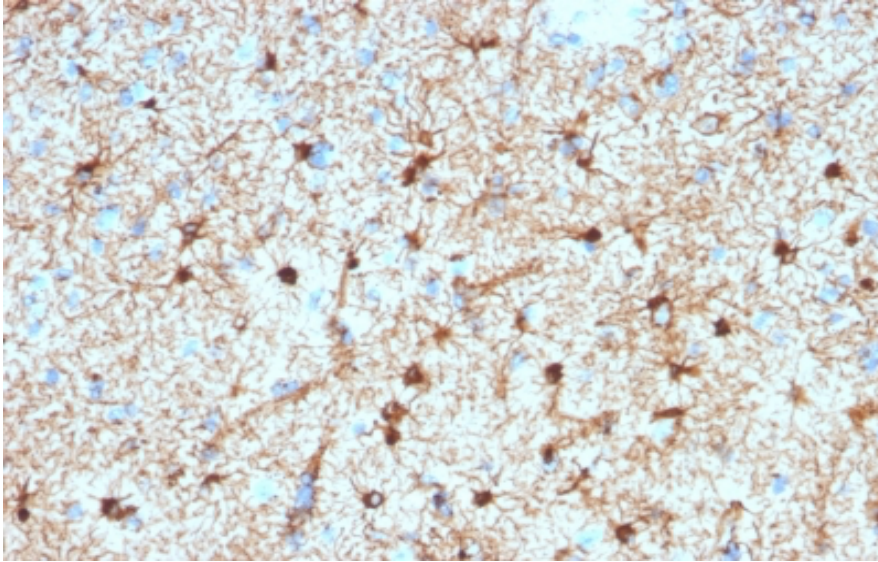
Liability                                      This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance                      see next pages

**Product data:**

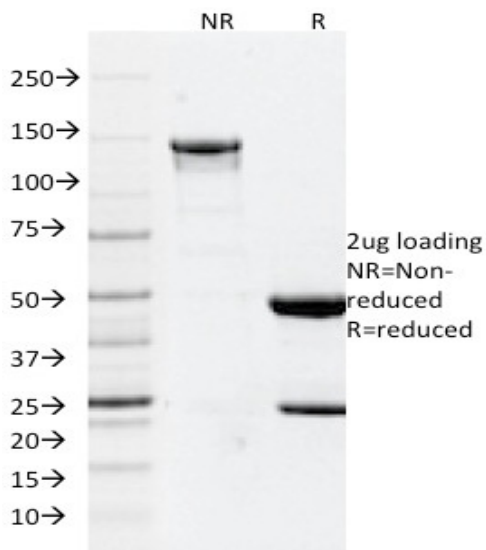
**ImmunoHistoChemistry (IHC):**

This product shows astrocyte staining in the cerebellum of human brain sections. Recommended concentration: 1-3ug/ml



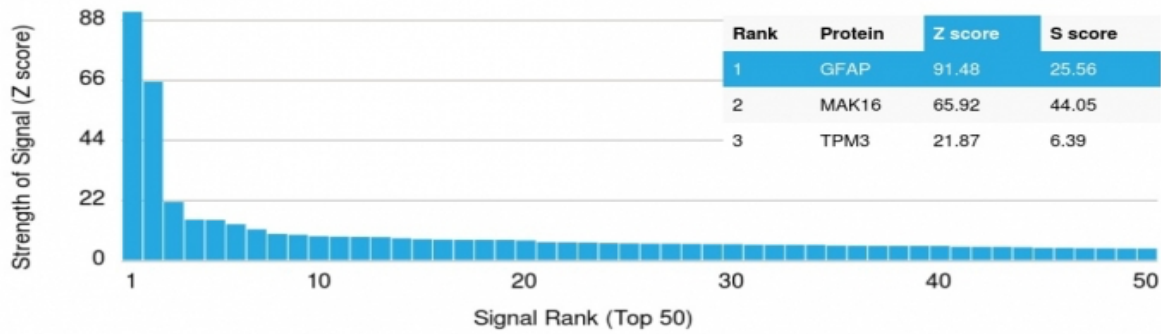
Formaldehyde-fixed, paraffin-embedded human cerebellum stained with GFAP Mouse Monoclonal Antibody AE00178 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

**SDS-PAGE Analysis of Purified GFAP Mouse Monoclonal Antibody AE00178. Confirmation of Purity and Integrity of Antibody.**



Integrity of the purified antibody AE00178 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 50kDa and 25kDa resp. (R).

Specificity and selectivity of AE00178 to GFAP were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against *H. sapiens* revealed some homology to other intermediate filament proteins: DES, PRPH, VIM and INA. These proteins were part of the array used and showed no cross-reactivity signals.



Cross-reactivity assessment of GFAP Mouse Monoclonal Antibody AE00178 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).