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Built Around Immunology

# Anti-GFAP Rabbit mAb [55E22]

**Catalog No.: A52130**

## Basic Information

| | |
|---|---|
| Catalog No. (Cat.No.) | A52130 |
| Host species | Rabbit |
| Reactivity | Human,Mouse,Rat |
| Applications | WB,IHC,IP,IF,ELISA |
| Synonyms | GFAP,Glial fibrillary acidic protein |

## Product Information

| | |
|---|---|
| Target | GFAP |
| Molecular Weight(Calculated) | 50 kDa |
| Molecular Weight(Observed) | 50 kDa |
| Isotype | IgG,Kappa |
| Conjugation | NA |
| Concentration | 0.2 mg/ml |
| Clonality | Monoclonal |
| Clone No. | 55E22 |
| RRID | NA |
| Storage buffer | 50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4) |
| Storage | Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles. |
| Shipped at conditions | Frozen |
| Form | Liquid |

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## Product Usage Information

| Application | Dilution |
|---|---|
| WB | 1:1000-1:5000 |
| IHC | 1:200-1:1000 |
| IP | 1:50-1:200 |
| IF | 1:200-1:1000 |
| ELISA | 1:5000-1:20000 |

## Target Information

| | |
|---|---|
| Protein Name | Glial fibrillary acidic protein |
| Gene Name | *GFAP* |
| Domain | NA |
| Background | GFAP (Glial Fibrillary Acidic Protein) is a nerve-specific protein of the intermediate filament protein family, specifically expressed in astrocytes of the central nervous system. It coregulates glial cytoskeleton construction, central nervous system development, blood-brain barrier maintenance and nerve injury response. GFAP maintains the morphological stability of astrocytes, regulates the balance of the neural microenvironment, and assists neuronal nutrient supply and signal transmission. Under pathological conditions such as brain trauma, cerebral infarction, neuroinflammation and brain tumors, astrocytes are activated and GFAP expression is significantly upregulated, serving as a specific biomarker for central nerve injury and glial activation. |