

## Product datasheet

# Anti-GFAP (phospho S8) antibody [YC10] ab115898

★★★★☆ 1 Abreviews 2 References

### Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-GFAP (phospho S8) antibody [YC10]   |
| <b>Description</b>         | Mouse monoclonal [YC10] to GFAP (phospho S8)   |
| <b>Host species</b>        | Mouse  |
| <b>Tested applications</b> | <b>Suitable for:</b> ELISA, Functional Studies, WB, ICC  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Rat, Cow, Human, Pig  |
| <b>Immunogen</b>           | Synthetic peptide corresponding to the N-terminus of Pig GFAP phosphorylated at Ser <sup>8</sup> . |

### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at -20°C.                 |
| <b>Storage buffer</b>       | pH: 7.20<br>Constituents: 49% PBS, 50% Glycerol |
| <b>Purity</b>               | Protein A purified                              |
| <b>Clonality</b>            | Monoclonal                                      |
| <b>Clone number</b>         | YC10  |
| <b>Isotype</b>              | IgG1  |

### Applications

Our [Abpromise guarantee](#) covers the use of **ab115898** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application        | Abreviews | Notes                                    |
|--------------------|-----------|--|
| ELISA              |           | Use at an assay dependent concentration. |
| Functional Studies |           | Use a concentration of 1 µg/ml.          |

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| WB          |           | Use a concentration of 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa). |
| ICC         |           | Use a concentration of 1 µg/ml.  |

## Target

|   |  |
|---|--|
| <b>Function</b>                         | GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.  |
| <b>Tissue specificity</b>               | Expressed in cells lacking fibronectin.  |
| <b>Involvement in disease</b>           | Defects in GFAP are a cause of Alexander disease (ALEXD) [MIM:203450]. Alexander disease is a rare disorder of the central nervous system. It is a progressive leukoencephalopathy whose hallmark is the widespread accumulation of Rosenthal fibers which are cytoplasmic inclusions in astrocytes. The most common form affects infants and young children, and is characterized by progressive failure of central myelination, usually leading to death usually within the first decade. Infants with Alexander disease develop a leukoencephalopathy with macrocephaly, seizures, and psychomotor retardation. Patients with juvenile or adult forms typically experience ataxia, bulbar signs and spasticity, and a more slowly progressive course. |
| <b>Sequence similarities</b>            | Belongs to the intermediate filament family.   |
| <b>Post-translational modifications</b> | Phosphorylated by PKN1.  |
| <b>Cellular localization</b>            | Cytoplasm. Associated with intermediate filaments.   |

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