Datasheet: AHP1468

Description:	GOAT ANTI HUMAN GFAP (C-TERMINAL)
Specificity:	GFAP (C-TERMINAL)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/32000
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 3.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse
Based on sequence similarity, is expected to react with:Rat, Dog
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antiserum to human GFAP (CT) was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution

TRIS buffered saline

Preservative Stabilisers

0.02% Sodium Azide (NaN_3)
0.5% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.5mg/ml

Immunogen

Peptide sequence C-DGEVIKESKQEHKD from the C-terminal region of GFAP (NP_002046.1).

External Database Links	**UniProt:** P14136 Related reagents **Entrez Gene:** 2670 GFAP Related reagents
Specificity	**Goat anti Human GFAP antibody** recognizes an epitope within the C-terminal (CT) region of human GFAP (glial fibrillary acidic protein), a class III intermediate filament (IF) protein specifically expressed by glial cells or cells of glial origin e.g astrocytes, ependymal cells and Schwann cells. GFAP plays a role in several cellular functions within the central nervous system (CNS), including cell structure and stability, communication, motility and mitosis, and is rapidly synthesized during astrogliosis, following trauma/injury. Mutations in the GFAP gene are responsible for the rare autosomal dominant disorder known as Alexander disease, resulting in the destruction of brain white matter and the formation of fibrous, eosinophilic deposits known as Rosenthal fibers. Characteristics of this disease are associated with transgenes and other mutation types in mouse.
Western Blotting	AHP1468 detects a band of approximately 48kDa in mouse brain cell lysates.
Further Reading	1. Gomes, F.C. *et al.* (1999) Glial fibrillary acidic protein (GFAP): modulation by growth factors and its implication in astrocyte differentiation. Braz J Med Biol Res. 32 (5): 619-31.
Storage	Store at +4^{o}C or at -20^{o}C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: 10058: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP

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Printed on 01 May 2018