

Datasheet: AHP2259GA

Description:	RABBIT ANTI BOVINE NEUROFILAMENT H 200kDa	
Specificity:	NEUROFILAMENT H 200kDa	
Other names:	Neurofilament heavy polypeptide	
Format:	Purified	
Product Type:	Polyclonal Antibody	
lsotype:	Polyclonal IgG	
Quantity:	0.1 mg	

Product Details

Applications	This product has been report from testing within our labor the originators. Please refer	sonal communications from				
	recommendations, please visit www.bio-rad-antibodies.com/protocols.					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry			•		
	Immunohistology - Frozen					
	Immunohistology - Paraffin (1)	•			1.0ug/ml	
	ELISA			•		
	Immunoprecipitation			•		
	Western Blotting	•			0.1ug/ml	
	Where this antibody 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 antibody for use in their own system using appropriate				given as a guide only. It is	
	negative/positive controls.		,		S PR P	
	(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.					
	sections. Sodium citrate b	butter pH	6.0 IS reco	ommended for this p	burpose.	
Target Species	Bovine					
Species Cross	Reacts with: Rat, Human, Mouse					
Reactivity	N.B. Antibody reactivity and working conditions may vary between species.					
Product Form	Purified IgG - liquid					
Antiserum Preparatior	n Antiserum to bovine NFH was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.					
Buffer Solution	TRIS-glycine buffered saline, NaCl					
Preservative Stabilisers	0.05% Sodium Azide (NaN ₃)					
Approx. Protein Concentrations	IgG concentration 1.0mg/ml					

Immunogen	GST-tagged bovine NFH recombinant protein.				
External Database Links	UniProt:P12036Related reagentsP19246Related reagentsP16884Related reagents				
	Entrez Gene:4744NEFHRelated reagents380684NefhRelated reagents24587NefhRelated reagents				
Synonyms	Kiaa0845, KIAA0845, Nfh, NFH				
Specificity	Rabbit anti Bovine Neurofilament H 200 kDa antibody recognizes bovine intermediate 200 kDa Neurofilament H (NFH), a 1026 amino acid ~200 kDa protein involved in the maintenence of neuronal integrity.				
	Neurofilaments are a major component of the cellular cytoskeleton, acting as the most abundant support for the axon cytoplasm. They exist as three neurofilament proteins: 68/70 kDa (NFL) 160 kDa (NFM) and 200 kDa (NFH), which are expressed in both the central and peripheral nervous systems. Although typically expressed by neurons, neurofilaments are also expressed by neuroblastomas, neuromas, gangliogliomas, ganglioneuromas, and ganglioneuroblastomas, as well as paragangliomas, carcinoids, skin neuroendocrine carcinomas, and oat cell carcinomas of the lung (Lehto <i>et al.</i> 1983).				
	Defects in NFH are responsible for susceptibility to the neurodegenerative disorder amyotrophic lateral sclerosis (ALS) which affects upper and lower motor neurons, and results in fatal paralysis (<u>Mendonça <i>et al.</i> 2005</u>).				
Histology Positive Control Tissue	Bovine or rat cerebellum				
Western Blotting	AHP2259GA detects a band of approximately 200kDa in bovine cerebellum tissue lysates.				
References	1. Kaneko, S. <i>et al.</i> (2006) Protecting axonal degeneration by increasing nicotinamide adenine dinucleotide levels in experimental autoimmune encephalomyelitis models. <u>J Neurosci. 26:</u> <u>9794-804.</u>				
	 Li, Y. <i>et al.</i> (2008) Transplanted olfactory ensheathing cells incorporated into the optic nerve head ensheather retinal ganglion cell axons: possible relevance to glaucoma. <u>Neurosci Lett. 440:</u> <u>251-4.</u> Lington A at al. (2000) Eale of the O particle gauge for a state OEE 40 as high official parameters. 				
	3. Ignatov, A. <i>et al.</i> (2003) Role of the G-protein-coupled receptor GPR12 as high-affinity receptor for sphingosylphosphorylcholine and its expression and function in brain development. <u>J Neurosci.</u> 23: 907-14.				
	4. Leypoldt, F. <i>et al.</i> (2002) Neuronal differentiation of cultured human NTERA-2cl.D1 cells leads to increased expression of synapsins. <u>Neurosci Lett. 324 (1): 37-40.</u>				
	5. Savolainen, H. (2009) Cortical demyelination in PML and MS: similarities and differences. <u>Neurology. 72 (9): 861.</u>				
	6. Zhang, Z. <i>et al.</i> (2011) The role of single cell derived vascular resident endothelial progenitor cells in the enhancement of vascularization in scaffold-based skin regeneration. <u>Biomaterials. 32:</u> 4109-17.				

	7. Chen, K. <i>et al.</i> (2016) Differential Histopathological and Behavioral Outcomes Eight Weeks after Rat Spinal Cord Injury by Contusion, Dislocation, and Distraction Mechanisms. <u>J Neurotrauma. Apr</u> <u>4. [Epub ahead of print]</u>	
Further Reading	1. Liu Q <i>et al.</i> (2004) Neurofilament proteins in neurodegenerative diseases. <u>Cell Mol Life Sci. 61</u> (24): 3057-75.	
Storage	Store at +4°C or at -20°C if preferred.	
	This product should be stored undiluted.	
	Storage in frost free freezers is not recommended. 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 available at: Material Safety Datasheet Documentation #10511 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10511.pdf	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34)	<u>FITC</u>			
Sheep Anti Rabbit IgG (STAR35)	RPE			
Goat Anti Rabbit IgG (H/L) (STAR124) <u>HRP</u>				
Sheep Anti Rabbit IgG (STAR54)	HRP			
Goat Anti Rabbit IgG (Fc) (STAR121) Biotin, FITC, HRP				
Sheep Anti Rabbit IgG (STAR36)	DyLight®488, DyLight®549, DyLight®649,			
	DyLight®680, DyLight®800			

Sheep Anti Rabbit IgG (2AB02...) **Biotin**

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A) ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C) TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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