Neurofilament Conjugated Antibody

Catalog No: #C48259

Package Size: #C48259-AF350 100ul #C48259-AF405 100ul #C48259-AF488 100ul #C48259-AF555 100ul #C48259-AF594 100ul #C48259-AF647 100ul #C48259-AF680 100ul #C48259-AF750 100ul #C48259-Biotin 100ul

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Description

Product Name	Neurofilament Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	200 kDa neurofilament protein antibody CMT2CC antibody Nefh antibody Neurofilament heavy polypeptide 200kDa antibody Neurofilament heavy polypeptide antibody Neurofilament triplet H protein antibody NF H antibody NF-H antibody NFH antibody NFH_HUMAN antibody
Accession No.	Swiss-Prot#:P12036
Uniprot	P12036
GeneID	4744;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	200 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. NF-H has an important function in mature axons that is not subserved by the two smaller NF proteins. Neurofilament-H (NF-H), also known as neurofilament heavy polypeptide, and Neurofilament-L (NF-L), also known as neurofilament light polypeptide, members of the intermediate filament family, are major components of neuronal cytoskeletons. Neurofilaments are dynamic structures; they contain phosphorylation sites for a large number of protein kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase 5, extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-activated protein kinase gamma. In addition to their role in the control of axon caliber, neurofilaments may affect other cytoskeletal elements, such as microtubules and Actin filaments. Changes in neurofilament phosphorylation or metabolism are frequently observed in neurodegenerative diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease and Alzheimer's disease.

Note: This product is for in vitro research use only