



Anti-Neurofilament monoclonal antibody, clone O22-9-5 (DMAB6628)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse anti-bovine neurofilament, 160k 210k monoclonal antibody.
Antigen Description	Neurofilament is intermediate filament which expressed in nerve cells. And the protein consists of three subunits, 200 kDa, 160 kDa and 6.8 kDa. These subunits exist in phosphorylated form in axonal transport. This antibody reacts with the 200 kDa and 160 kDa subunits, and further the antibody is useful for research of neurodegenerative disease.
Specificity	Cross-reacts with Human Neurofilament 160 kDa and 210 kDa.
Immunogen	Bovine Brain Neurofilament.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Bovine
Clone	O22-9-5
Purification	Purified with Protein A.
Conjugate	Unconjugated
Applications	IHC-P
Format	Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN ₃ .
Preservative	0.05% Sodium Azide
Storage	-20 °C, Avoid freeze / thaw cycles

BACKGROUND

Introduction

Neurofilaments are the 10 nanometer (10nm) intermediate filaments found specifically in neurons. They are a major component of the cell's cytoskeleton, and provide support for normal axonal radial growth (i.e. increases in axon's diameter). Neurofilaments are composed of poly-peptide chains or subunits that are related structurally to the intermediate filaments of other tissues such as keratin subunits, which make 10nm filaments expressed specifically in epithelia. The family of proteins making intermediate filaments is divided into 5 major classes, the keratins forming the classes I and II. Class III contains the proteins Vimentin, Desmin, Peripherin and Glial Fibrillary Acidic Protein (GFAP). The major neurofilament subunits occupy the class IV family of intermediate filaments. Finally class V contains the nuclear lamins.

Keywords

160 kDa neurofilament protein; 150kDa medium; A1847934; 200 kDa neurofilament protein; 68 kDa neurofilament protein; Neurofilament, 160k 210k; CMT1F; CMT2E; FLJ53642; Micro glutamic acid-rich protein; mKIAA- 0845; Nef3; Nefm; Neurofilament 3; Neurofilament heavy polypeptide 200kDa; Neurofilament heavy polypeptide; NF-L; Neurofilament light polypeptide 68kDa; Neurofilament light polypeptide; Neurofilament medium polypeptide 150kDa; Neurofilament protein light polypeptide; Neurofilament protein light chain; Neurofilament medium polypeptide; Neurofilament protein heavy polypeptide; Neurofilament protein medium polypeptide; Neurofilament triplet H protein; NF165; Neurofilament triplet L protein; Neurofilament triplet M protein; NF-H; NF-M; NF160; NFH; NFL; NFM