**Neurofilament 160/200 kD (NF-M+H) Monoclonal Antibody**

Catalog Number: MMS-544R
Available Size: 0.2 mL

**Description:**
Monoclonal antibody against neurofilament medium and high

**Also Known As:**
- 160 kDa neurofilament protein; neurofilament triplet M protein; neurofilament-3 (150 kD medium); neurofilament, medium polypeptide 150kDa

**Form:**
Ascites

**Clone:**
RMdO-20

**Host:**
Mouse

**IsoType:**
IgG1

**Species Reactivity:**
Human, Mouse, Rabbit, Rat, Bovine, Hamster, Squid

**Specificity:**
Neurofilaments are type IV intermediate filaments found in neurons. They consist of three protein subunits termed NF-H (200 kd), NF-M (160 kd) and NF-L (68 kd), each composed of 3 domains: an N-terminal head domain, an alpha-helix rich central rod domain and a C-terminal tail domain. Neurofilaments are obligate heteropolymers in vivo with assembly depending on a core NF-L subunit interacting with NF-M and NF-H subunits. Neurofilament phosphorylation plays a key role in the establishment of neurofilament density and axonal caliber. Phosphorylation of neurofilaments is also associated with the dynamic remodeling of cytoskeleton architecture during axonal growth, guidance and synaptogenesis.

The RMdO-20 antibody reacts with the medium and heavy neurofilaments of 160 kd and 200 kd respectively. It recognizes a non-phosphorylated epitope in the tail domain of NF-M+H and was raised against dephosphorylated adult rat neurofilament medium subunit.

**Uses:**
This antibody is effective in immunoblotting, immunoprecipitation, immunohistochemistry and ELISA.

**Suggested Working Dilution:**
The optimal working dilution should be determined for each specific assay condition. **This antibody is sold for laboratory research use only, not for human or in-vivo use. Covance antibodies may not be resold or modified for resale without prior written approval.**

Western blot 1:1,000*

**Notes:**
*MW = 200 and 160 kD

**Storage:**
Store at -20°C. Upon initial thawing, apportion into working aliquots and store at -20°C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody.

**References:**
See reverse side for additional information


**Warranty/Conditions:**
Covance products may not be resold or modified for resale without prior written approval. All sales are subject to Covance Antibody Products Terms and Conditions of Sale.

**Datasheet Revision Date:**
11/6/2011