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Product datasheet for BA1013

Neurofilament M (160 kD) Bovine Protein

Product data:

Product Type:	Native Proteins
Description:	Neurofilament M (160 kD) bovine protein, 0.25 mg
Species:	Bovine
Protein Source:	Spinal Cord
Predicted MW:	160 kDa
Concentration:	lot specific
Purity:	>98% (determined by SDS gelelectrophoresis)
Buffer:	Presentation State: Purified State: Lyophilized
Reconstitution Method:	BA1013: Restore with 200 µl distilled water (final volume 250 µl). BA1013S: Restore with 80 µl distilled water (final volume 100 µl). Final solution: 10mM Sodium Phosphate, pH 7.5, 2mM DTT, 6M Urea, 1 mM EDTA.
Preparation:	Lyophilized
Applications:	Protein standard in 1D and 2D SDS gelelectrophoresis. Immunoassays. Immunization.
Protein Description:	Bovine Neurofilament 160 kDa
Note:	Isoelectric Point: pI 5.1
Storage:	Store at 2-8°C (lyophilized) and at -20°C (reconstituted). Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001099011
Locus ID:	4741
Cytogenetics:	8p21.2
Synonyms:	Neurofilament medium polypeptide, NF-M, NEF3, NEFM, Neurofilament 3, (Neuronal Marker)

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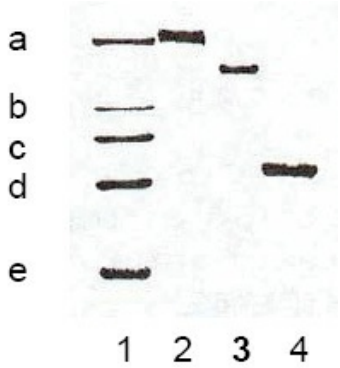
Summary: Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the medium neurofilament protein. This protein is commonly used as a biomarker of neuronal damage. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]

Protein Families: Protein standard in 1D and 2D SDS gelelectrophoresis.
Immunoassays.
Immunization.

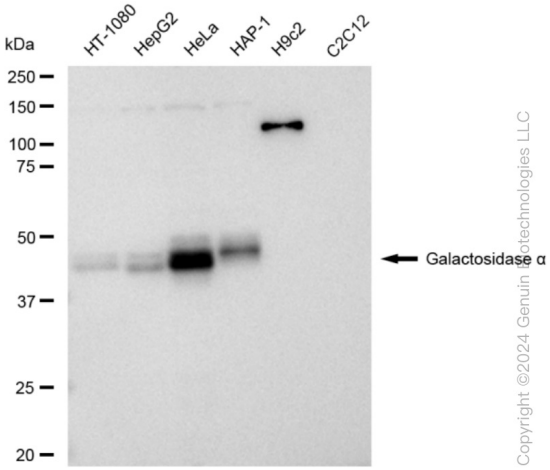
Protein Pathways: Amyotrophic lateral sclerosis (ALS)

Product images:

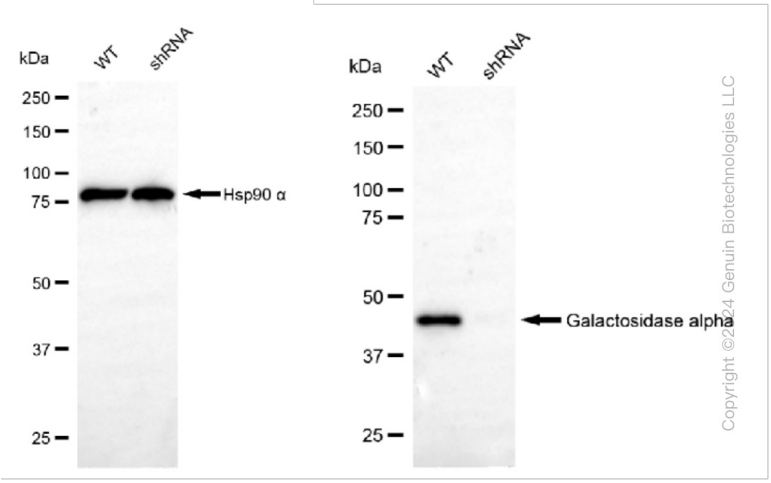
1. myosin (a)
   ß-galactosidase (b)
   phosphorylase B (c)
   BSA (d)
   ovalbumin (e)
2. Mr 200 kD Neurofilament
3. **Mr 160 kD Neurofilament**
4. Mr 68 kD Neurofilament



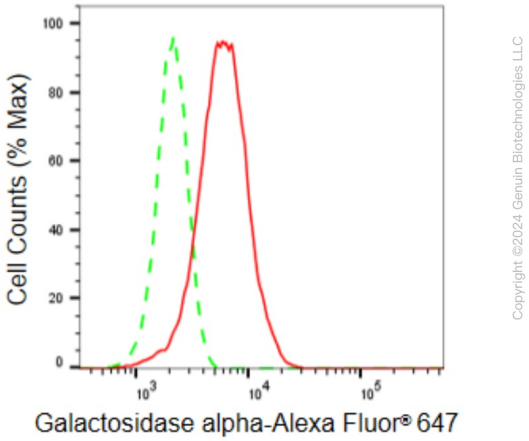
Lane 1 shows myosin (a), beta-galactosidase (b), phosphorylase B (c), BSA (d) and ovalbumin (e) as markers
Lane 2 shows Cat.No. [BA1014]/[BA1014S] Neurofilament H (200 kD)
Lane 3 shows Cat.No. BA1013/[BA1013S] Neurofilament M (160 kD)
Lane 4 shows Cat.No. [BA1012]/[BA1012S] Neurofilament L (68kDa)



Western blotting analysis using anti-Galactosidase alpha antibody . Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Galactosidase alpha antibody and HRP-conjugated goat anti-rabbit secondary antibody respectively. Image was developed using anti-FeQ™ ECL Substrate Kit .



Western blotting analysis using anti-Galactosidase alpha antibody . Galactosidase alpha expression in wild type (WT) and Galactosidase alpha shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates . Hsp90 α serves as a loading control. The blot was incubated with anti-Galactosidase alpha antibody and HRP-conjugated goat anti-rabbit secondary antibody respectively. Image was developed using anti-FeQ™ ECL Substrate Kit .



Flow cytometric analysis of Galactosidase alpha expression in HeLa cells using anti-Galactosidase alpha antibody . Green, isotype control; red, Galactosidase alpha.