**BACKGROUND**

The N-Myc downstream regulated gene (NDRG) family is comprised of four members, namely NDRG1, NDRG2, NDRG3 and NDRG4, all of which share 57-65% homology. NDRG4 (NDRG family member 4), also known as SMAP-8 (smooth muscle-associated protein B) or BDM1 (brain development-related molecule 1), is a 352 amino acid cytoplasmic protein that belongs to the NDRG family. Expressed specifically in brain and heart, NDRG4 is thought to function as a regulator of mitogenic signaling in vascular smooth muscle cells. Additionally, NDRG4 may play a role in early postnatal development and may mediate the differentiation and subsequent function of neuronal cells. NDRG4 is expressed as six isoforms (the first three of which are designated NDRG4-B, NDRG4-B or NDRG4-H) due to alternative splicing events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: NDRG4 (human) mapping to 16q21; Ndrg4 (mouse) mapping to 8 D1.

**SOURCE**

NDRG4 (39-V) is a mouse monoclonal antibody raised against recombinant NDRG4 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. No MSDS required.

---

**APPLICATIONS**

NDRG4 (39-V) is recommended for detection of NDRG4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NDRG4 siRNA (h): sc-93374, NDRG4 siRNA (m): sc-149885, NDRG4 shRNA Plasmid (h): sc-93374-SH, NDRG4 shRNA Plasmid (m): sc-149885-SH, NDRG4 shRNA (h) Lentiviral Particles: sc-93374-V and NDRG4 shRNA (m) Lentiviral Particles: sc-149885-V.


Positive Controls: RAW 264.7 whole cell lysate: sc-2211, IMR-32 cell lysate: sc-2409 or NDRG4 (h): 293T Lysate: sc-129236.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.