



## TorsinB (R-23): sc-102138

### BACKGROUND

TorsinB, also known as TOR1B, DQ1 or FKSG18, is a 336 amino acid protein that localizes to the lumen of endoplasmic reticulum and belongs to the Torsin family. Expressed in a variety of tissues with particularly high levels in adult brain, TorsinB is thought to function as a molecular chaperone that assists in the conformational folding of membrane and secreted proteins. Via its ability to regulate protein folding, TorsinB plays a key role in postnatal developmental events and is essential for proper neurological development. TorsinB contains two PKC (protein kinase C) phosphorylations sites, one ATP binding domain and several conserved cysteines and shares 69% amino acid identity with TorsinA, a related family member. Defects in the gene encoding TorsinB are associated with torsion dystonia, an autosomal dominant neurological disorder that is characterized by debilitating muscle contractions throughout the body.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: TOR1B (human) mapping to 9q34.11; Tor1b (mouse) mapping to 2 B.

### SOURCE

TorsinB (R-23) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping raised against TorsinB of human origin of TorsinB of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

### APPLICATIONS

TorsinB (R-23) is recommended for detection of TorsinB 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 TorsinB siRNA (h): sc-92951 and TorsinB siRNA (m): sc-154560; and as shRNA Plasmid control antibody for TorsinB shRNA Plasmid (h): sc-92951-SH and TorsinB shRNA Plasmid (m): sc-154560-SH.

Molecular Weight of TorsinB: 38 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), 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).

### STORAGE

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

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.