CLN5 (D-8): sc-374672

**BACKGROUND**

Neuronal ceroid-lipofuscinoses (NCL), also designated Batten disease, comprises a group of recessively inherited, progressive neurodegenerative diseases found in children. NCL is characterized by atrophy of the brain and an accumulation of lysosome derived fluorescent bodies found in many cells, especially neurons. Symptoms of NCL include a failure of psychomotor development, seizures, impaired vision and premature death. The eight genes/proteins associated with NCL are designated CLN1-CLN8. Mutations in six of these genes result in a distinct type of NCL-disease; the six genes/proteins are CLN1 (encoding PPT1, a protein thiolesterase), CLN2 (encoding the serine protease TP1), CLN3, CLN5, CLN6 and CLN8. A single base duplication mutation in canine and bovine CLN5 has been shown to cause NCL.

**APPLICATIONS**

CLN5 (D-8) is recommended for detection of CLN5 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immuno-fluorescence (starting dilution 1:50, dilution range 1:50-1:150), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CLN5 siRNA (h): sc-60408, CLN5 shRNA Plasmid (h): sc-60408-SH and CLN5 shRNA (h) Lentiviral Particles: sc-60408-V.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CLN5 (human) mapping to 13q22.3.

**SOURCE**

CLN5 (D-8) is a mouse monoclonal antibody raised against amino acids 45-212 mapping near the N-terminus of CLN5 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CLN5 (D-8) is available conjugated to agarose (sc-374672 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374672 HRP), 200 µg/ml, for WB, (HCIP) and ELISA; to either phycoerythrin (sc-374672 PE), fluorescein (sc-374672 FITC), Alexa Fluor® 488 (sc-374672 AF488), Alexa Fluor® 546 (sc-374672 AF546), Alexa Fluor® 594 (sc-374672 AF594) or Alexa Fluor® 647 (sc-374672 AF647), 200 µg/ml, for WB (RGB), IF, (HCIP) and FCM; and to either Alexa Fluor® 680 (sc-374672 AF680) or Alexa Fluor® 790 (sc-374672 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**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 website at www.scbt.com for detailed protocols and support products.