**BACKGROUND**

LYSMD3 (LysM and putative peptidoglycan-binding domain-containing protein 3) is a 306 amino acid single-pass membrane protein that contains one LysM repeat and exists as 3 alternatively spliced isoforms. The gene encoding LYSMD3 maps to human chromosome 5q14.3. With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. It is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: LYSMD3 (human) mapping to 5q14.3.

**SOURCE**

LYSMD3 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of LYSMD3 of human origin.

**STORAGE**

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

**PRODUCT**

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

Blocking peptide available for competition studies, sc-137599 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

LYSMD3 (N-13) is recommended for detection of LYSMD3 isoforms 1-3 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other LYSMD family members.

LYSMD3 (N-13) is also recommended for detection of LYSMD3 isoforms 1-3 in additional species, including canine and porcine.

Suitable for use as control antibody for LYSMD3 siRNA (h): sc-91992, LYSMD3 shRNA Plasmid (h): sc-91992-SH and LYSMD3 shRNA Lentiviral Particles: sc-91992-V.

Molecular Weight of LYSMD3 isoforms: 35/14/17 kDa.

**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-2233 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

**LYSMD3 (N-13): sc-137599. Western blot analysis of LYSMD3 expression in non-transfected: sc-117752 (A) and mouse LYSMD3 transfected: sc-121455 (B) 293T whole cell lysates.**