

# CD39L4 (H-79): sc-134630

## BACKGROUND

CD39, also known as ectonucleoside triphosphate diphosphohydrolase 1 (ENP1), is an integral membrane glycoprotein that acts as an extracellular nucleotide-hydrolyzing enzyme. Characteristically, CD39 and other members of the ecto-ATPase family contain apyrase-conserved regions and function to mediate nucleotide catabolism. CD39L4, also known as ENTPD5 (ectonucleoside triphosphate diphosphohydrolase 5), is a 428 amino acid protein that is similar to CD39 and localizes to the lumen of the endoplasmic reticulum (ER). Highly expressed in colon, testis, kidney, liver and prostate, CD39L4 is thought to promote reglycosylation reactions that are involved in the folding of glycoproteins and in quality control events in the ER. Like other members of the ecto-ATPase family, CD39L4 contains four apyrase-conserved regions and is catalytically activated by calcium and magnesium. Overexpression of CD39L4 is implicated in the development of breast, testicular and prostate cancer, suggesting that CD39L4 may be a proto-oncogene involved in carcinogenesis.

## CHROMOSOMAL LOCATION

Genetic locus: ENTPD5 (human) mapping to 14q24.3; Entpd5 (mouse) mapping to 12 D1.

## SOURCE

CD39L4 (H-79) is a rabbit polyclonal antibody raised against amino acids 251-329 mapping within an internal region of CD39L4 of human origin.

## PRODUCT

Each vial contains 200 µg IgG 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. Non-hazardous. No MSDS required.

## APPLICATIONS

CD39L4 (H-79) is recommended for detection of CD39L4 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CD39L4 (H-79) is also recommended for detection of CD39L4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CD39L4 siRNA (h): sc-92204, CD39L4 siRNA (m): sc-142200, CD39L4 shRNA Plasmid (h): sc-92204-SH, CD39L4 shRNA Plasmid (m): sc-142200-SH, CD39L4 shRNA (h) Lentiviral Particles: sc-92204-V and CD39L4 shRNA (m) Lentiviral Particles: sc-142200-V.

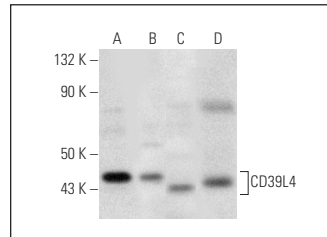
Molecular Weight of CD39L4: 49 kDa.

Positive Controls: human liver extract: sc-363766, HeLa whole cell lysate: sc-2200 or mouse liver extract: sc-2256.

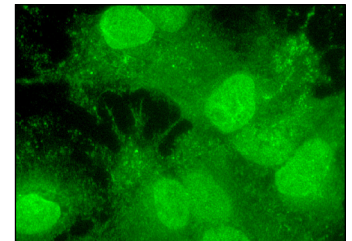
## RECOMMENDED SECONDARY REAGENTS

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). 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



CD39L4 (H-79): sc-134630. Western blot analysis of CD39L4 expression in HeLa (A) and NCI-H1299 (B) whole cell lysates and human liver (C) and mouse liver (D) tissue extracts.



CD39L4 (H-79): sc-134630. Immunofluorescence staining of formalin-fixed Hep G2 cells showing membrane and nuclear localization.

## 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.


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Try **CD39L4 (C-6): sc-377172** or **CD39L4 (F-4): sc-377256**, our highly recommended monoclonal alternatives to CD39L4 (H-79).