

# MYT1 (N-13): sc-86175

## BACKGROUND

C2HC-type zinc finger transcription factors, such as MYT1L, MYT1 and ST18, are widely expressed in developing neuronal cells. MYT1 (myelin transcription factor 1), also designated MTF1, MYT1 or PLPB1, is a 1,121 amino acid nuclear protein expressed in neural progenitors and oligodendrocyte lineage cells. MYT1 consists of seven very highly conserved zinc fingers of the C2HC class of zinc finger transcription factors, which are arranged in two widely separated clusters. These two clusters of the DNA binding domain can function independently and recognize the same DNA sequence. MYT1 is thought to be involved in the development of neurons and oligodendrogalia in the central nervous system and in the regulation of endocrine differentiation and function. Myelin repair in periventricular leukomalacia (PVL) regions in developing brain may involve MYT1 activity.

## CHROMOSOMAL LOCATION

Genetic locus: MYT1 (human) mapping to 20q13.33.

## SOURCE

MYT1 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of MYT1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-86175 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-86175 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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.

## APPLICATIONS

MYT1 (N-13) is recommended for detection of MYT1 of 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).

Suitable for use as control antibody for MYT1 siRNA (h): sc-75858, MYT1 shRNA Plasmid (h): sc-75858-SH and MYT1 shRNA (h) Lentiviral Particles: sc-75858-V.

MYT1 (N-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

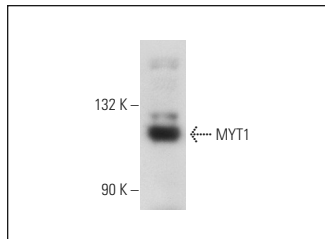
Molecular Weight of MYT1: 110 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



MYT1 (N-13): sc-86175. Western blot analysis of MYT1 expression in HeLa nuclear extract.

## PROTOCOLS

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



Try **MYT1 (B-10): sc-398299**, our highly recommended monoclonal alternative to MYT1 (N-13).