

# IMMP2L (E-18): sc-164660

## BACKGROUND

Composed of two catalytic subunits, designated IMP1 and IMP2, the mitochondrial inner membrane peptidase (IMP) complex functions in the production of active, mature mitochondrial inner membrane proteins by removing the mitochondrial targeting presequence of nuclear encoded proteins. IMMP2L (mitochondrial inner membrane protease subunit 2), also known as IMP2, is a 175 amino acid protein that belongs to the peptidase S26 family and IMP1 subfamily. Expressed in most tissues except adult liver and lung, IMMP1L participates in the assembly of the active form of Diablo, a mitochondrial protein that promotes apoptosis. The gene encoding IMMP2L maps to human chromosome 7q31.1 and mouse chromosome 12 B1; defects to this gene may result in Gilles de la Tourette syndrome (GTS), a neurological disorder characterized by motor and vocal tics, as well as behavioral abnormalities.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: IMMP2L (human) mapping to 7q31.1; Impmp2l (mouse) mapping to 12 B1.

## SOURCE

IMMP2L (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IMMP2L 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.

Blocking peptide available for competition studies, sc-164660 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

IMMP2L (E-18) is recommended for detection of IMMP2L of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with IMMP1L.

IMMP2L (E-18) is also recommended for detection of IMMP2L in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for IMMP2L siRNA (h): sc-89651, IMMP2L siRNA (m): sc-146226, IMMP2L shRNA Plasmid (h): sc-89651-SH, IMMP2L shRNA Plasmid (m): sc-146226-SH, IMMP2L shRNA (h) Lentiviral Particles: sc-89651-V and IMMP2L shRNA (m) Lentiviral Particles: sc-146226-V.

Molecular Weight of IMMP2L isoforms 1/2: 20/12 kDa.

## 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) 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.

## 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.