

TAPBPL (E-15): sc-138659

BACKGROUND

TAPBPL (TAP binding protein-like), also known as TAPBPR or TAPBP-R, is a 468 amino acid protein that contains one Ig-like (immunoglobulin-like) C1-type domain and one Ig-like V-type domain. Localized to the membrane of both the endoplasmic reticulum (ER) and the microsome, TAPBPL is a single-pass type I membrane protein that is similar to TPN (also known as TAPBP or Tapasin), a transmembrane glycoprotein that belongs to the variable-constant Ig superfamily. TPN functions to link the ER-associated antigen transporter TAP with major histocompatibility complex (MHC) class I molecules, thereby mediating peptide loading onto MHC proteins. Due to its similarity with TPN, TAPBPL is thought to play a role in antigen processing events within the ER.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TAPBPL (human) mapping to 12p13.31; Tapbpl (mouse) mapping to 6 F3.

SOURCE

TAPBPL (E-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of TAPBPL of human origin.

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-138659 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TAPBPL (E-15) is recommended for detection of TAPBPL of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), 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).

Suitable for use as control antibody for TAPBPL siRNA (h): sc-96046, TAPBPL siRNA (m): sc-154069, TAPBPL shRNA Plasmid (h): sc-96046-SH, TAPBPL shRNA Plasmid (m): sc-154069-SH, TAPBPL shRNA (h) Lentiviral Particles: sc-96046-V and TAPBPL shRNA (m) Lentiviral Particles: sc-154069-V.

Molecular Weight of TAPBPL: 52 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

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) 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.

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 or our catalog for detailed protocols and support products.