TBL1 (E-20): sc-34538



The Power to Question

BACKGROUND

TBL1, for transducin β -like 1, is a ubiquitously expressed protein that contains six distinct β-transducin repeats, known also as WD40 repeats, within the C-terminal domain. Transducin β-like 1 Y-linked protein (TBL1Y), also designated F-box-like/WD-repeat protein, and transducin β-like 1 X protein (TBL1X), also known as SMAP55, are nuclear F-box-like proteins. They are important in the ubiquitin/19S proteasome complex recruitment to nuclear receptorregulated transcription units. TBL1X is a part of the N-CoR repressor complex together with N-CoR1, N-CoR2, HDAC3, TBL1R, CORO2A and GPS2. It is also a component of the E3 ubiquitin ligase complex. TBL1X, which can interact with Histones H2B, H3a and H4, is similar to TBL1Y but is localized on chromosome Xp22.3. Defects in TBL1X may cause an X-linked human disorder called ocular albinism with late-onset sensorineural deafness (OASD). TBL1Y is an X-degenerate gene that is homologous to TBL1X. TBL1Y, a single-copy gene, localizes to human chromosome Yp11.2 in the male-specific region of chromosome Y (MSY). This region of the Y chromosome does not engage in X-Y crossover events. TBL1Y is primarily expressed in fetal brain and prostate. TBL1X and TBL1Y are crucial in nuclear receptor mediated transcription activation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TBL1Y (human) mapping to Yp11.2; Tbl1x (mouse) mapping to X A7.3.

SOURCE

TBL1 (E-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TBL1Y of human origin.

PRODUCT

Each vial contains 200 μg lgG 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-34538 X, 200 μg /0.1 ml.

Blocking peptide available for competition studies, sc-34538 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TBL1 (E-20) is recommended for detection of TBL1X of mouse and rat origin and TBL1Y of 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 TBL1X of human origin.

TBL1 (E-20) is also recommended for detection of TBL1Y origin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TBL1Y siRNA (h): sc-91549, TBL1X siRNA (m): sc-38889, TBL1Y shRNA Plasmid (h): sc-91549-SH, TBL1X shRNA Plasmid (m): sc-38889-SH, TBL1Y shRNA (h) Lentiviral Particles: sc-91549-V and TBL1X shRNA (m) Lentiviral Particles: sc-38889-V.

TBL1 (E-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TBL1: 57 kDa.

Positive Controls: Y79 cell lysate: sc-2240 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (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.



Try **TBL1 (H-3):** sc-137006 or **TBL1 (H-11):** sc-137083, our highly recommended monoclonal alternatives to TBL1 (E-20).