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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

TGF β RII (m): 293T Lysate: sc-124016

BACKGROUND

A total of three members of the TGF β family, TGF β 1, TGF β 2 and TGF β 3, have been identified in mammals. Each is synthesized as a latent precursor that is subsequently cleaved forming the 112 amino acid growth factor which becomes active upon dimerization. TGF β s mediate their activity by high affinity binding to the type II receptor (TGF β RII) transmembrane protein with a cytoplasmic serine-threonine kinase domain. TGF β RII (TGF- β receptor type-2), also known as TGFBR2, is a 567 amino acid single-pass type I membrane protein that contains one protein kinase domain and is a member of the protein kinase superfamily, TKL Ser/Thr protein kinase family and TGF β receptor subfamily. For signaling growth inhibition and early gene responses, TGF β RII requires both its kinase activity and association with a TGF β -binding protein, designated the type I receptor. TGF β RII exists as two alternatively spliced isoforms that are encoded by a gene that maps to human chromosome 3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Tgfb2 (mouse) mapping to 9 F3.

PRODUCT

TGF β RII (m): 293T Lysate represents a lysate of mouse TGF β RII transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

TGF β RII (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TGF β RII antibodies. Recommended use: 10-20 μ l per lane.

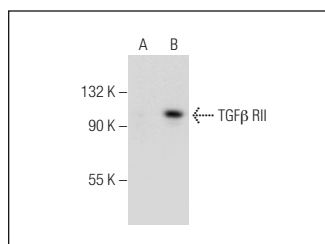
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TGF β RII (C-4): sc-17791 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TGF β RII expression in TGF β RII transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



TGF β RII (C-4): sc-17791. Western blot analysis of TGF β RII expression in non-transfected: sc-117752 (A) and mouse TGF β RII transfected: sc-124016 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.