

Mex3d (E-14): sc-240676

BACKGROUND

Mex-3 (muscle excess protein-3) is a translational regulator in *Caenorhabditis elegans* that participates in maintaining the germline totipotency and in specification of posterior blastomeres in early embryos. In humans, four evolutionarily conserved Mex-3 homologs exist, namely Mex3a, Mex3b, Mex3c and Mex3d. These proteins comprise a family of RNA binding phosphoproteins which each contain two tandemly repeated KH (nuclear ribonucleoprotein K homology) domains and one C-terminal RING finger motif. In addition, the Mex-3 homolog family of proteins shuttle between the nucleus and the cytoplasm through the CRM1-dependent export pathway and may play a role regulating posttranscriptional events. Mex3d (Mex-3 homolog d), also known as MEX3, TINO, RKHD1 (RING finger and KH domain-containing protein 1) or RNF193 (RING finger protein 193), is a ubiquitously expressed protein. Due to alternative splicing events truncating the N-terminus, a variant form of Mex3d exists, which is known as TINO.

CHROMOSOMAL LOCATION

Genetic locus: MEX3D (human) mapping to 19p13.3; Mex3d (mouse) mapping to 10 C1.

SOURCE

Mex3d (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Mex3d 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-240676 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-240676 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mex3d (E-14) is recommended for detection of Mex3d of mouse, rat and 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); non cross-reactive with other Mex3 family members.

Suitable for use as control antibody for Mex3d siRNA (h): sc-97604, Mex3d siRNA (m): sc-149398, Mex3d shRNA Plasmid (h): sc-97604-SH, Mex3d shRNA Plasmid (m): sc-149398-SH, Mex3d shRNA (h) Lentiviral Particles: sc-97604-V and Mex3d shRNA (m) Lentiviral Particles: sc-149398-V.

Mex3d (E-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

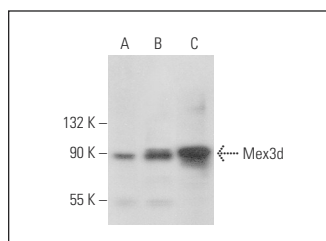
Molecular Weight of Mex3d: 65 kDa.

Positive Controls: MDA-MB-231 cell lysate: sc-223, Hep G2 cell lysate: sc-2227 or mouse brain extract: sc-2253.

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



Mex3d (E-14): sc-240676. Western blot analysis of Mex3d expression in MDA-MB-231 (A) and Hep G2 (B) whole cell lysates and mouse brain tissue extract (C).

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.


 MONOS
Satisfaction
Guaranteed

Try **Mex3d (H-3): sc-514739**, our highly recommended monoclonal alternative to Mex3d (E-14).