

EOMES (X-22): sc-133552

BACKGROUND

EOMES (eomesodermin homolog), also known as TBR2 (T-box-brain2), is the 686 amino acid human homolog of the mouse Eomes protein that contains one T-box DNA-binding domain. Genes that contain T-box domains encode proteins that function as transcription factors and are often involved in the regulation of various developmental events. Localized to the nucleus and expressed in the developing brain, EOMES is thought to be involved in neuronal migration and division and may play a role in trophoblast development and gastrulation. Silencing of the EOMES gene can cause mutated or arrested development and may lead to microcephaly disorders, which are characterized by reduced head circumference and a malformed brain.

REFERENCES

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- Russ, A.P., et al. 2000. Eomesodermin is required for mouse trophoblast development and mesoderm formation. *Nature* 404: 95-99.
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CHROMOSOMAL LOCATION

Genetic locus: EOMES (human) mapping to 3p24.1; Eomes (mouse) mapping to 9 F3.

SOURCE

EOMES (X-22) is an affinity purified rabbit polyclonal antibody raised against an N-terminal region of synthetic EOMES peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

EOMES (X-22) is recommended for detection of EOMES 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EOMES (X-22) is also recommended for detection of EOMES in additional species, including equine, bovine and canine.

Suitable for use as control antibody for EOMES siRNA (h): sc-77277, EOMES siRNA (m): sc-77278, EOMES shRNA Plasmid (h): sc-77277-SH, EOMES shRNA Plasmid (m): sc-77278-SH, EOMES shRNA (h) Lentiviral Particles: sc-77277-V and EOMES shRNA (m) Lentiviral Particles: sc-77278-V.

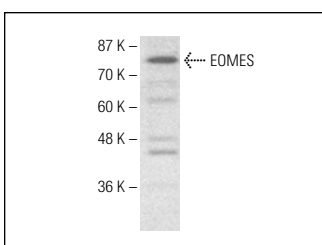
Molecular Weight of EOMES: 73 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



EOMES (X-22): sc-133552. Western blot analysis of EOMES expression in Hep G2 whole cell lysate.

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.

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Try **EOMES (1A8): sc-293481**, our highly recommended monoclonal alternative to EOMES (X-22).