

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human EOMES in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human EOMES Gly471-Pro686 Accession # O95936
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Intracellular Staining by Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

EOMES (Eomesodermin; *Eo* from Greek meaning "dawn"/early in *mesoderm*; also TBR2) is a 72 kDa member of the TBR1 subfamily, T-box family of transcription factors. It is expressed in NK and CD8+ T cells, where CTLA4 activation suppresses EOMES activation of IFN-γ and granzyme B genes. It is also found in the embryo, where it occurs in forebrain floorplate and migrating neuroblasts at 12.5 weeks gestation. Notably, it is reported to undergo intercellular transfer in fetal *Xenopus* tissue destined to become mesoderm. Here, it synchronizes a multicellular commitment to a cell lineage. Human EOMES is 686 amino acids (aa) in length. It contains short poly-Ala, -Gly and -Asn motifs, and a DNA-binding T box (aa 276-456). There is one isoform that shows a 19 aa insertion after Ser460. Over aa 471-686, human EOMES shares 91% aa identity with mouse EOMES.

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