# Human EOMES Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse $IgG_{2B}$ Clone # 644730

Catalog Number: IC6166G

100 TESTS

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human EOMES in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) Brachyury, rhEOMES (aa 1-115), recombinant mouse EOMES (aa 1-126), rhTBX2, 3, 5, 6, 18, or 20 is observed. |
| **Source** | Monoclonal Mouse $IgG_{2B}$ Clone # 644730 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *E. coli*-derived recombinant human EOMES<br>Gly471-Pro686<br>Accession # O95936 |
| **Conjugate** | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Formulation** | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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. |

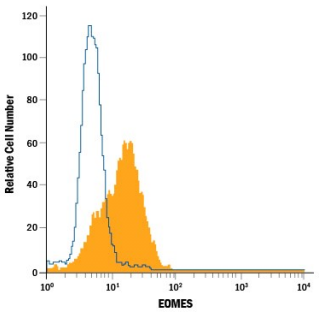
## APPLICATIONS

**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.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Intracellular Staining by Flow Cytometry** | 5 µL/$10^6$ cells | See Below |

## DATA

**Intracellular Staining by Flow Cytometry**




**Detection of EOMES in Mesendoderm-differentiated BG01V Human Cells by Flow Cytometry.** Mesendoderm-differentiated BG01V human embryonic stem cells were stained with Mouse Anti-Human EOMES Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC6166G, filled histogram) or isotype control antibody (Catalog # IC0041G, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

## PREPARATION AND STORAGE

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| **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.**<br>● 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.

## PRODUCT SPECIFIC NOTICES

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