

# Human MESP1 Alexa Fluor® 647-conjugated Antibody

Monoclonal Rabbit IgG Clone # 2030b

Catalog Number: IC9219R

100 µg

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>        | Detects human MESP1 in direct ELISAs.                                                                                                                                                                                                                                                                                            |
| <b>Source</b>             | Monoclonal Rabbit IgG Clone # 2030b                                                                                                                                                                                                                                                                                              |
| <b>Purification</b>       | Protein A or G purified from cell culture supernatant                                                                                                                                                                                                                                                                            |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human MESP1<br>Met1-Gln85<br>Accession # Q9BRJ9                                                                                                                                                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                                                                                  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL 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.

|                                                 | <b>Recommended Concentration</b> | <b>Sample</b>                                                                                                                                                   |
|-------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Intracellular Staining by Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells  | Mouse ES cells transfected with human MESP1 fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # <a href="#">FC012</a> ). |

## PREPARATION AND STORAGE

|                                |                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.                                  |
| <b>Stability &amp; Storage</b> | <b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

## BACKGROUND

Mesoderm posterior protein 1 (MESP1) is a 268 amino acids protein that in humans is encoded by the MESP1 gene. MESP1 was first identified in transcripts enriched in the posterior region of the mouse embryo at embryonic day E7 to E7.5. Lineage tracing in mice showed that MESP1 represents the earliest marker of cardiac progenitors and directs multipotential cardiovascular cell fates, patterning mesoderm into cardiac, hematopoietic, or skeletal myogenic progenitors in a context-dependent manner.

## PRODUCT SPECIFIC NOTICES

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