**BACKGROUND**

The vascular network is a highly branched closed circuit of blood vessels, which extends throughout the body and mediates the delivery and exchange of blood. Blood vessels consist of an endothelium, which is a continuous, cylindrical epithelial cell layer, a basal lamina, and an outer mural cell layer. In addition to blood vessels, endothelial cells line the interiors of tissue cavities and spaces. MECA-32 is a mouse monoclonal antibody that shows high specificity for mouse endothelium in both embryonic and mature tissues. The MECA-32 antigen is expressed on most endothelial cells of the embryonic and adult mouse, with the exception of brain, skeletal, and cardiac muscle. In skeletal and cardiac muscle, small arterioles and venules express the MECA-32 antigen. In the brain, MECA-32 expression negatively correlates with the differentiation of the vasculature to form the blood brain barrier.

**REFERENCES**


**SOURCE**

pan ECA (MECA-32) is a rat monoclonal antibody raised against mouse lymph node stromal cells.

**PRODUCT**

Each vial contains 200 µg IgG\textsubscript{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

pan ECA (MECA-32) is available conjugated to agarose (sc-19603 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-19603 HRP), 200 µg/ml, for WB, IHQI and ELISA; to either phycoerythrin (sc-19603 PE), fluorescein (sc-19603 FITC), Alexa Fluor\textsuperscript{®} 488 (sc-19603 AF488), Alexa Fluor\textsuperscript{®} 546 (sc-19603 AF546), Alexa Fluor\textsuperscript{®} 594 (sc-19603 AF594) or Alexa Fluor\textsuperscript{®} 647 (sc-19603 AF647), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM; and to either Alexa Fluor\textsuperscript{®} 680 (sc-19603 AF680) or Alexa Fluor\textsuperscript{®} 790 (sc-19603 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

pan ECA (MECA-32) is recommended for detection of a dimer of subunits expressed on endothelial cells in embryonic and adult mouse, with the exception of cardiac muscle, skeletal muscle and brain of mouse origin by immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunoflourescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10\textsuperscript{6} cells).

**STORAGE**

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

**DATA**

![Image](https://via.placeholder.com/150)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.