

Anti-Mouse CD31 (PECAM-1) eFluor[®] 650NC (for IHC/ICC)


Catalog Number: IH95-0311

Also known as: Platelet-Endothelial Cell Adhesion Molecule 1, PE-CAM1

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse CD31 (PECAM-1)
eFluor[®] 650NC (for IHC/ICC)

 **Catalog Number:** IH95-0311

Clone: 390

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial



Description

The 390 monoclonal antibody reacts with mouse CD31, also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1) and gpIIa. This 130-140 kDa surface protein is expressed by endothelial cells and at low levels on all leukocytes and platelets. It has been reported that CD38 binds to CD31. Homotypic interaction of CD31 is important in adhesion, cell-cell and cell-matrix interaction, and signal transduction.

Applications Reported

This 390 antibody has been reported for use in immunohistochemical staining of frozen tissue sections (IHC-F) and immunocytochemistry (ICC).

Applications Tested

This 390 antibody has been tested by immunohistology of frozen mouse spleen using the IHC/ICC Blocking Buffer - Low Protein (cat. 00-4953). This antibody can be used at 1:100.

For answers to additional questions refer to for IHC/ICC protocols and eFluor Nanocrystal Frequently Asked Questions

Applications: This product has been optimized for use in immunohistochemistry and Immunocytochemistry. We do not recommend its use in flow cytometry.

Filter Recommendation: When using this eFluor[®] 650NC antibody conjugate, we recommend a filter that will capture the 650 emission wavelength. A standard Alexa Fluor[®] 647 filter is acceptable, although other filters that narrow the emission would be more suitable when complexing with additional eFluor[®] nanocrystal conjugates. Please refer to Technical Support FAQ for more information.

Buffer Recommendation: We recommend the use of TBS-based solutions when performing IHC/ICC with eFluor[®] NC conjugated antibodies. We offer several products: IHC /ICC Blocking Buffer - Low Protein (cat. 00-4953), and IHC /ICC Blocking Buffer – High Protein (cat. 00-4952) which is optimal when staining FFPE sections or when using eFluor[®] nanocrystal conjugates to nuclear targets.

Mounting Recommendation: For optimal results, we recommend the use of Fluoromount-G[™] (cat. 00-4958) when mounting slides.

References

Sadri N, Schneider RJ. Auf1/Hnnpd-Deficient Mice Develop Pruritic Inflammatory Skin Disease. J Invest Dermatol. 2009 Mar;129(3):657-70. (**390**, IHC frozen, PubMed)

Cao G, O'Brien CD, Zhou Z, Sanders SM, Greenbaum JN, Makrigiannakis A, DeLisser HM. Involvement of human PECAM-1 in angiogenesis and in vitro endothelial cell migration. Am J Physiol Cell Physiol. 2002 May;282(5):C1181-90. (**390**, IHC frozen)

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Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein

00-4958 Fluoromount-G™

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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