

CD31/PECAM-1 (JC/70A)


Mouse anti-human CD31 Monoclonal Antibody (Clone JC/70A)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use** (manual or LabVision AutoStainer)
MAD-002048QD-3
MAD-002048QD-7
MAD-002048QD-12
- **Ready-to-use (MD-Stainer)²**
MAD-002048QD-3/V
MAD-002048QD/V
- **concentrated**
MAD-002048Q - 1:50 recommended dilution

COMPOSITION

Anti-human CD31 mouse monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

INTENDED USE : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: JC/70A

Ig ISOTYPE: Mouse IgG1/Kappa

IMMUNOGEN: Membrane preparation of a spleen from a patient with hairy cell leukemia.

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS:

CD31 is a glycoprotein expressed on endothelial cells and in platelets. It is known to be involved in cell signaling and cell adhesion.



The anti-CD31 antibody is useful for the identification of benign and malignant vascular tumors. Other lesions like histiocytosis X, sinus histiocytosis with massive lymphadenopathy or Rosai-Dorfman disease, plasmacytoma and multiple myeloma are also frequently positive to CD31.

IHC POSITIVE CONTROL: Tonsil

VISUALIZATION: Cell membrane

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A EDTA buffer pH8³ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

SAFETY RECOMMENDATIONS

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory@vitro.bio.

¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).

- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

³ Ref: MAD-004072R/D



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





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BIBLIOGRAPHY

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2. Newman PJ: The biology of PECAM-1. J Clin Invest. 1997 ;99:3-8.
3. Lantuejoul S, Isaac S, Pinel N, Negoescu A, Guibert B, Brambilla E: Clear cell tumor of the lung: an immunohistochemical and ultrastructural study supporting a pericytic differentiation. Mod Pathol. 1997; 10:1001-8.
4. Govender D, Harilal P, Dada M, Chetty R: CD31 (JC70) expression in plasma cells: an immunohistochemical analysis of reactive and neoplastic plasma cells. J Clin Pathol. 1997; 50:490-3.
5. Vargas SO, Perez-Atayde AR, Gonzalez-Crussi F, Kozakewich HP: Giant cell angioblastoma: three additional occurrences of a distinct pathologic entity. Am J Surg Pathol. 2001; 25:185-96.
6. Slone SP, Fleming DR, Buchino JJ: Sinus histiocytosis with massive lymphadenopathy and Langerhans cell histiocytosis express the cellular adhesion molecule CD31. Arch Pathol Lab Med. 2003; 127:341-4.
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LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet

