Datasheet

Mouse mAb to **CD50**
Clone **189-2G9**
Isotype **IgG2b-κ**

Source

A BALB/c mouse was immunized with stimulated human leucocytes.
Fusion partner: NS-1.

Specifications

189-2G9 reacts with the cellular adhesion molecule CD50 (ICAM-3), a single chain polypeptide with a MW of 120 kDa. The protein is heavily glycosylated and resistant to phosphatidylinositol phospholipase C treatment so probably not PI-anchored. 186-2G9 has been clustered at the VIth GLDA International Workshop. 186-2D9 recognized the D1 domain of human CD50 and blocks binding of CD11a (α L-integrin) to CD50.

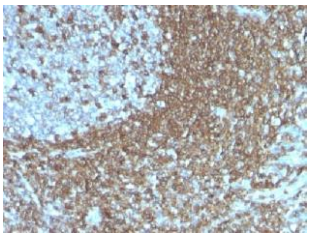

Figure 1: Human tonsil stained with 189-2G9 (paraffin).

Species reactivity

Positive: human.

Applications

189-2G9 is excellent for CD50 staining in paraffin sections and for flow cytometry. In addition it can be used for functional studies.

Flow cytometry	Frozen sections	Functional studies	Immunofluorescence	Paraffin sections
+	+	+	+	Citrate

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow cytometry (1-2 µg/million cells in 0,1 ml, at 4°C).
- Functional studies (0,02-2,0 µg/ml without azide).
- Immunofluorescence (1-2 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

HL-60 or THP-1 cells. Lymph node and tonsil.

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References

- Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 1546-1547, 1578-1579.
- C.L. Holness, et al., *J Biol Chem*. **270**: 877-884 (1995)\.
- Y. van Kooyk, et al., *J Exp Med* **183**: 1247-1252 (1996).
- Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p. 403-409.