

Anti-Mouse Sema4A Purified

Catalog Number: 14-1002

Also known as: SEMAB, Sema B, Semaphorin B

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

Product Information

 **Contents:** Anti-Mouse Sema4A Purified
Catalog Number: 14-1002
Clone: KL-1 (aka SK31)
Host/Isotype: Rat IgG2a

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to vial



Use By: Refer to vial

Description

The KL-1 (aka SK31) antibody reacts with mouse Sema4A, a class IV semaphorin originally identified as SemB. Sema4A is structurally similar to Sema4D/CD100. Sema4A is reported to be expressed by dendritic cells, B cells and activated T cells. Although published data suggested that Sema4A binds to Tim-2, a T cell surface receptor, it remains to be definitively shown that these two molecules have a receptor/ligand relation. It is suggested that Sema4a can provide costimulatory signals for T cells.

This KL-1 antibody works in immunoblotting but requires non-reducing conditions.

Applications Reported

This KL-1 (aka SK31) antibody has been reported for use in immunoblotting (WB).

Applications Tested

The KL-1 (aka SK31) antibody has been tested by immunoblot analysis of mouse Sema4A transfected cells under nonreducing conditions. This can be used at less than or equal to 5 µg/ml. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kumanogoh A, Kikutani H. 2003. Immune semaphorins: a new area of semaphorin research. J Cell Sci. 116:3463-70.

Kikutani H, Kumanogoh A. 2003. Semaphorins in interactions between T cells and antigen-presenting cells. Nat Rev Immunol. 3(2):159-67.

Kumanogoh A, Marukawa S, Suzuki K, Takegahara N, Watanabe C, Ch'ng E, Ishida I, Fujimura H, Sakoda S, Yoshida K, Kikutani H. 2002. Class IV semaphorin Sema4A enhances T-cell activation and interacts with Tim-2. Nature. 419(6907):629-33.

Related Products

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)