

Mouse Anti-CD48 [MEM102]: MC0176

Intended Use: For Research Use Only

Description: CD48 (BLAST1) is an activation-associated, glycosylphosphatidylinositol (GPI)-anchored cell surface glycoprotein expressed primarily in mitogen-stimulated human lymphocytes. CD48 is expressed on T cells, B cells, thymocytes and splenocytes. Both normal and malignant white blood cells express CD48 on their membrane surface, but greater than 95% of CD34+ hematopoietic stem cells do not express CD48. CD48 is expressed at higher levels on human Burkitt's lymphoma cell lines, Raji and most acute myeloid leukemia cells with phenotype CD34-/CD13+/CD33+. Although much remains to be elucidated, CD48 is a critical marker for human immunity, and will most likely be of use in the treatment of many diseases like hematopoietic tumors, autoimmunity, allergy and chronic inflammatory diseases.

Specifications:

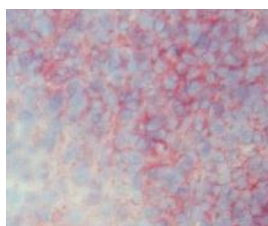
Clone: MEM102
 Source: Mouse
 Isotype: IgG1
 Reactivity: Human
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., IF, IHC, IP
 Package:

Description	Catalog No.	Size
CD48 Concentrated	MC0176	1 ml

IHC Procedure*:

Positive Control Tissue: Tonsil, myeloid leukemia
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



Frozen human tonsil tissue stained with anti-CD48 using AEC

References:

1. Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement. Drbal K, et al. Int Immunol 19:675-84, 2007.
2. Signal transduction via glycosyl phosphatidylinositol-anchored proteins in T cells is inhibited by lowering cellular cholesterol. Stulnig TM, et al. J Biol Chem 272:19242-7, 1997.
3. Monoclonal antibodies against human leucocyte antigens. III. Antibodies against CD45R, CD6, CD44 and two newly described broadly expressed glycoproteins MEM-53 and MEM-102. Bazil V, et al. Folia Biol (Praha) 35:289-97, 1989. Leucocyte Typing IV. Knapp W, et al. Oxford University Press : 1989.