10320 Camino Santa Fe, Suite G
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ALPI Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2311a

Specification

ALPI Antibody - Product Information

Application	**WB, FC, E**
Primary Accession	P09923
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**39.8kDa KDa**

Description
The protein encoded by this gene belongs to putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Induces apoptosis in acute myeloid leukemia (in vitro) and CD33 plays potential key roles in the pathogenesis of Alzheimer's disease (AD)

Immunogen
Purified recombinant fragment of human CD33 (AA: 15-237) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

ALPI Antibody - Additional Information

Gene ID 248

Other Names
Intestinal-type alkaline phosphatase, IAP, Intestinal alkaline phosphatase, 3.1.3.1, ALPI

Dilution
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ALPI Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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ALPI Antibody - Protein Information

Name ALPI

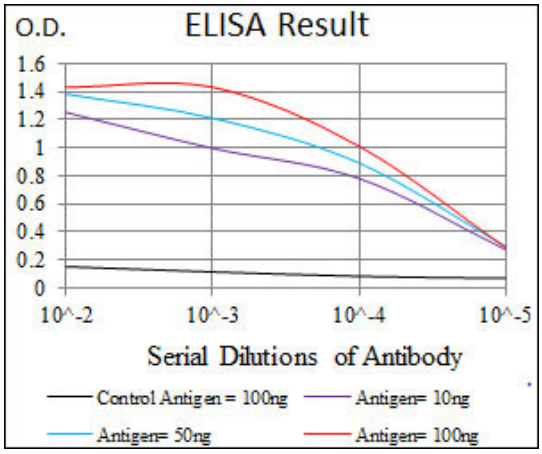
Function
Alkaline phosphatase that can hydrolyze various phosphate compounds.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P15693}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:P15693}

ALPI Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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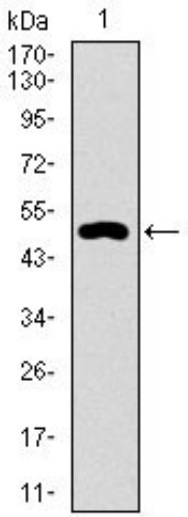

Figure 1: Western blot analysis using CD33 mAb against human CD33 recombinant protein. (Expected MW is 49.2 kDa)

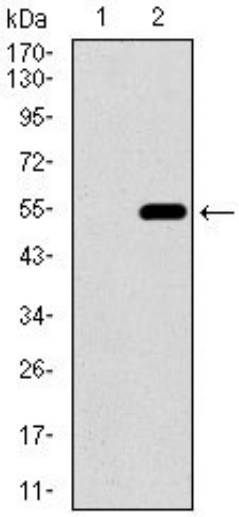

Figure 2: Western blot analysis using CD33 mAb against HEK293 (1) and CD33 (AA: 15-237)-hIgGFc transfected HEK293 (2) cell lysate.

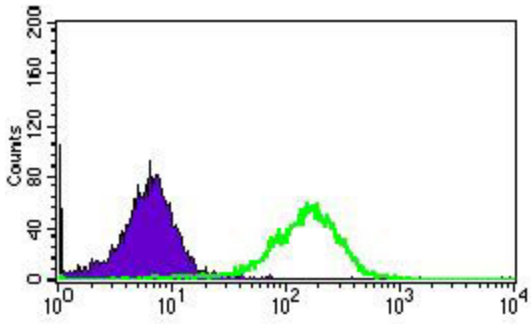

Figure 5: Flow cytometric analysis of HepG2 cells using CD33 mouse mAb (green) and negative control (purple).

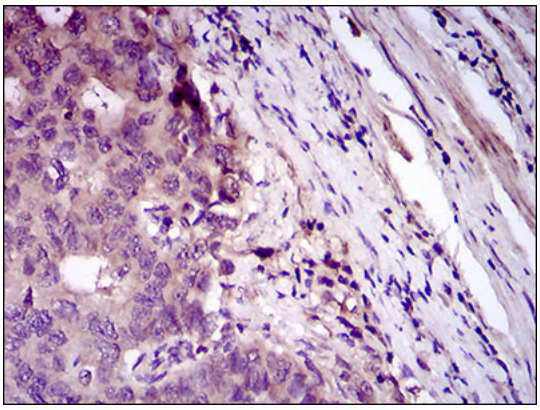

Figure 6: Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using CD33 mouse mAb with DAB staining.

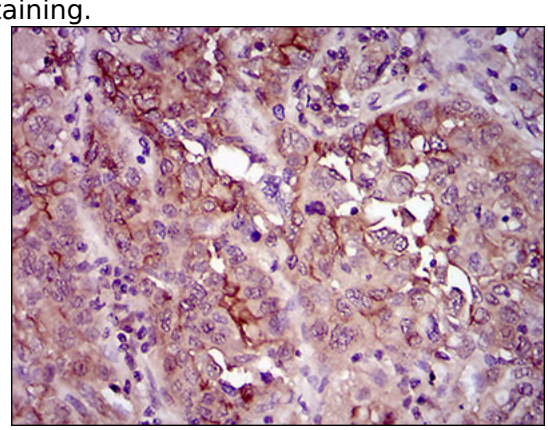

Figure 7: Immunohistochemical analysis of paraffin-embedded endometrium tissues using CD33 mouse mAb with DAB staining.

ALPI Antibody - References

1. MAbs. 2011 Jan-Feb;3(1):21-30. 2. Hum Genet. 2012 Jul;131(7):1245-9.