Anti-CD33 Antibody [B7-C6]

EM1709-20

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	IHC-P, FC
Molecular Wt:	70 kDa
Clone number:	B7-C6

Description: CD33 is a type I transmembrane glycoprotein that is found on granulocyte and macrophage precursors in the bone marrow, but is absent from pluripotent stem cells. CD33 is also expressed on monocytes in peripheral blood. It is used as a marker to distinguish myelogenous leukemia cells from lymphoid or erythroid leukemias. CD33 may function as a sialic acid-dependent cell adhesion molecule.

Immunogen: Recombinant protein

Positive control: Human esophageal cancer tissue, human endometrium tissue, Hela.

Subcellular location: Cell membrane.

Database links: SwissProt: P20138 Human

Recommended Dilutions:

IHC-P	1:50-1:200
FC	1:100-1:200

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: 4℃; -20℃ for long term storage.

Purity: Protein A affinity purified.

Images

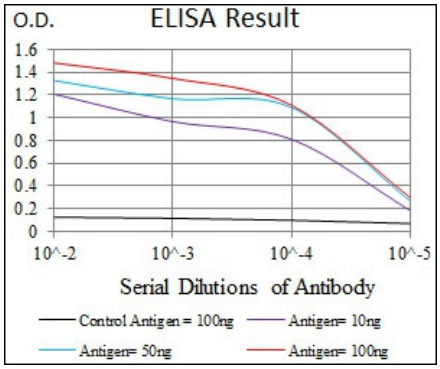

Fig1: Red: Control Antigen (100ng) Purple: Antigen (10ng), Green: Antigen (50ng) Blue: Antigen (100ng),

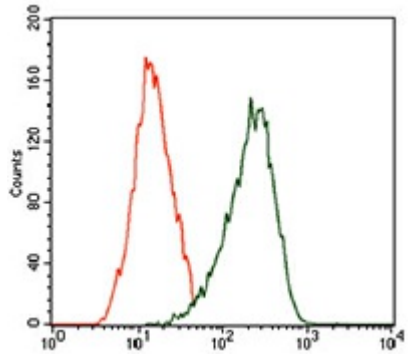

Fig2: Fow cytometric analysis of Hela cells using CD33 mouse mAb(green)and negative control (red).

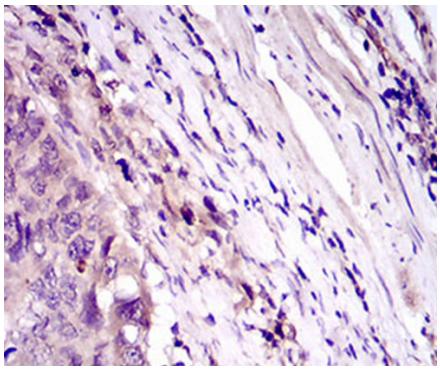

Fig3: Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissue using anti-CD33 antibody. Counter stained with hematoxylin.

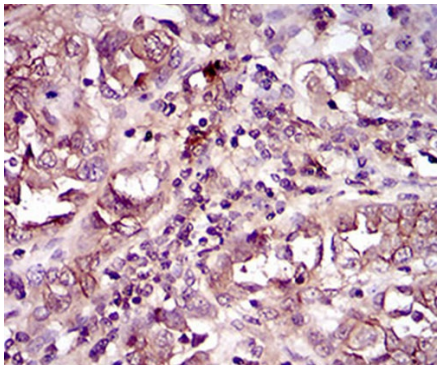

Fig4: Immunohistochemical analysis of paraffin-embedded human endometrium tissue using anti-CD33 antibody. Counter stained with hematoxylin.

Background References

1. Siddiqui SS et al. The Alzheimer's Disease-protective CD33 splice variant mediates adaptive loss of function via diversion to an intracellular pool. J Biol Chem pii: jbc.M117.799346 (2017).
2. Lamba JK et al. CD33 Splicing Polymorphism Determines Gemtuzumab Ozogamicin Response in De Novo Acute Myeloid Leukemia: Report From Randomized Phase III Children's Oncology Group Trial AAML0531. J Clin Oncol 35(23):2674-2682 (2017).