

10-4064: Monoclonal Antibody to CD33(Clone: ABM29D3)

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| Clonality : | Monoclonal |
| Clone Name : | ABM29D3 |
| Application : | IHC,FACS,WB |
| Reactivity : | Human |
| Gene : | CD33 |
| Gene ID : | 945 |
| Uniprot ID : | P20138 |
| Format : | Purified |
| Alternative Name : | CD33,SIGLEC3 |
| Isotype : | Mouse IgG2a Kappa |
| Immunogen Information : | A partial length recombinant CD33 protein (amino acids 28-320) was used as the immunogen for this antibody. |

Description

CD33 is a member of the SIGLEC (Sialic Acid-Binding Ig-Like Lectin) family of receptors, and the gene comprises seven coding exons. Exon 2 encodes the canonical IgV domain, exon 4 encodes the IgC structural domain, and exons 6 and 7 encode cytosolic ITIMs (Immunotyrosine Inhibitory Motifs). CD33 acts as a cell surface antigen which is expressed on normal myeloid cells and CD34+ blasts in AML (Acute Myeloid Leukemia). The antigen serves as a target of GO (Gemtuzumab/Ozogamicin), which exerts anti-leukemic effects in refractory AML.

Product Info

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| Amount : | 25 µg / 100 µg |
| Purification : | Protein G Chromatography |
| Content : | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Western blot analysis: 2-4 µg/ml,

Immunohistochemical analysis: 5 µg/ml

FACS: 0.2-0.5 µg/10⁶ cells

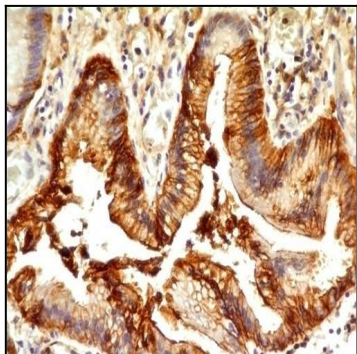


Fig-1: Immunohistochemical analysis of CD33 in adenocarcinoma of rectum using CD33 antibody (Clone: ABM29D3) at 5 µg/ml.

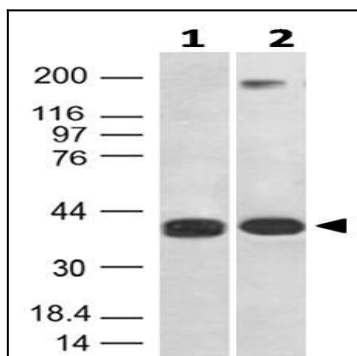


Fig-2: Western blot analysis of CD33. Anti- CD33 antibody (Clone: ABM29D3) was used at 2 µg/ml on Human Spleen and DU145 lysates.

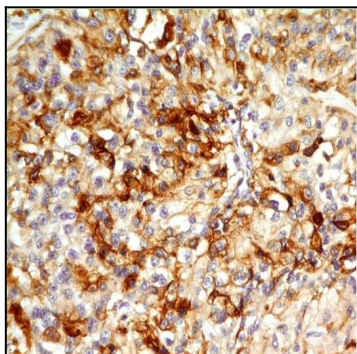


Fig-3: Immunohistochemical analysis of CD33 in Renal Cell Carcinoma using CD33 antibody (Clone: ABM29D3) at 5 µg/ml.

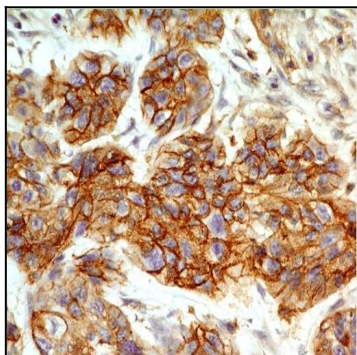


Fig-4: Immunohistochemical analysis of CD33 in squamous cell carcinoma of esophagus using CD33 antibody (Clone: ABM29D3) at 5 µg/ml.

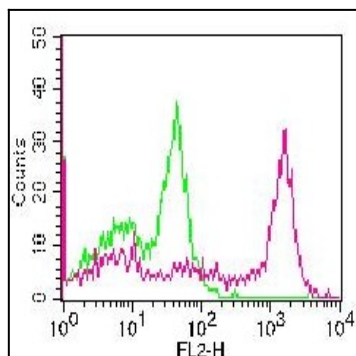


Fig-5: Cell Surface flow analysis of hCD33 in PBMC (Monocytes) using 0.2 μ g/10⁶ cells of CD33 clone (ABM29D3). Green represents isotype control; red represents anti-hCD33 antibody. Goat anti-mouse PE conjugated secondary antibody (ABEOMICS) was used.