

### 36-3010: Monoclonal Antibody to CD34 (Clone: ICO-115)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ICO-115
<b>Application :</b>	ELISA
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD34
<b>Gene ID :</b>	947
<b>Uniprot ID :</b>	P28906
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CD34
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Blast cells from a chronic myeloid leukemia patient were used as the immunogen for the CD34 antibody.

#### Description

CD34 a type 1 transmembrane protein, belonging to the sialomucin family, has important roles in adhesion which remain to be fully elucidated. CD34 has an intracellular cytoplasmic domain containing consensus sites for serine, threonine, tyrosine and active protein kinase C (PKC) phosphorylation thereby implicating a role for the protein in signal transduction processes. CD34 expression, as identified by antibody, is a hallmark for identifying pluripotential hematopoietic stem or progenitor cells. CD34 antibody positive populations expand and differentiate into the various lymphohematopoietic lineages. During differentiation, lineages lose CD34 expression and become CD34 antibody negative.

#### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	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.
<b>Storage condition :</b>	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

Immunohistochemistry (Formalin-fixed) (0.1-0.2µg/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes)

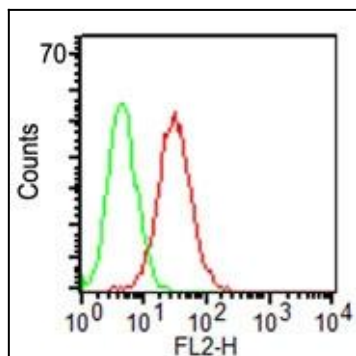


Fig. 1: Cell Surface flow analysis of hCD34 on KG-1 cells using 0.5  $\mu$ g antibody per  $10^6$  cells. Green represents isotype control (ABEOMICS); red represents anti-hCD34 antibody (36-3010). Goat anti-mouse PE conjugated secondary antibody was used (ABEOMICS).