

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human CD74 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 332516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-S-derived recombinant human CD74 Gln73-Met232 Accession # NP_004346
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood lymphocytes

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD74 is a transmembrane protein which, on antigen presenting cells, is the invariant chain that chaperones MHC class II dimers from the endoplasmic reticulum to the cell surface. The cytoplasmic portion of CD74 can be released by intramembrane cleavage and activate NFκB. CD74 is up-regulated in several cancers and is also expressed by non-immune cells during inflammation. This antibody was raised to a splice variant of human CD74 which lacks the Thyroglobulin type 1 repeat in the extracellular domain. Within comparable regions, human CD74 shares 70% and 73% amino acid sequence identity with mouse and rat CD74, respectively.

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