

## Anti-CD74 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 56451 (clone PIN1)

**Size:** 100 µg in PBS, pH 7.4, purified by Protein G affinity chromatography.

### BACKGROUND

CD74 is a non-polymorphic type II integral membrane protein. It has a short N-terminal cytoplasmic tail of 28 amino acids followed by a single 24-aa transmembrane region and an approximately 150-aa luminal domain. CD74 functions mainly as an MHC class II chaperone which promotes ER exit of MHC class II molecules by directing them to endocytic compartments, preventing peptide binding in the ER, and contributing to peptide "editing" in the MHC class II compartment. CD74 has recently been shown to have a role as an accessory signaling molecule because of its high-affinity binding to the pro-inflammatory cytokine macrophage migration inhibitory factor (MIF).

### SPECIFICATION SUMMARY

**Antigen:** Synthetic peptide corresponding to the human CD74 invariant chain (aa 12-28) conjugated to KLH.

**Host Species:** Mouse

**Antibody Class:** IgG1

**Preservatives:** 0.09% sodium azide

**Other additives:** 50% glycerol

### SPECIFICITY

This antibody recognizes human CD74.

### APPLICATIONS

*Immunoblotting:* use at 1ug/ml. A doublet band of ~33-35 kDa is detected.

*Immunoprecipitation:* use at 12ug/ml.

*Immunocytochemistry:* working concentration is sample dependent.

*Flow cytometry:* working concentration is sample dependent.

These are recommended concentrations.

User should determine optimal concentrations for their application.

*Positive control:* PALA cell lysate.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.