Mouse Mer Alexa Fluor® 700-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 108928

Catalog Number: FAB5912N

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Mer in direct ELISAs.
Source	Monoclonal Rat IgG_{2A} Clone # 108928
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant mouse Mer Glu23-Phe498 Accession # Q60805
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *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.

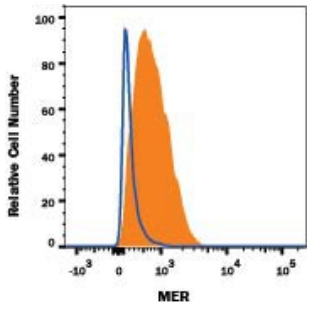
APPLICATIONS

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	See Below

DATA

Flow Cytometry



Detection of Mer in J774A.1 Mouse Cell Line by Flow Cytometry. J774A.1 mouse reticulum cell sarcoma macrophage cell line was stained with Rat Anti-Mouse Mer Alexa Fluor® 700-conjugated Monoclonal Antibody (Catalog # FAB5912N, filled histogram) or isotype control antibody (Catalog # Catalog # IC006N, open histogram). View our protocol for Staining Membrane-associated Proteins.

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.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Axl (Ufo, Ark), Dtk (Sky, Tyro3, Rse, Brt) and Mer (human and mouse homologues of chicken c-Eyk) constitute a receptor tyrosine kinase subfamily. The extracellular domains of these proteins contain two Ig-like motifs and two fibronectin type III motifs. This characteristic topology is also found in neural cell adhesion molecules and in receptor tyrosine phosphatases. These receptors bind the vitamin K-dependent protein growth-arrest-specific gene 6 (Gas6) which is structurally related to the anticoagulation factor protein S. Binding of Gas6 induces receptor autophosphorylation and downstream signaling pathways that can lead to cell proliferation, migration or the prevention of apoptosis. Studies suggest that this family of tyrosine kinase receptors may be involved in hematopoiesis, embryonic development, tumorigenesis and regulation of testicular functions (1-2).

References:

1. Nagata, K. *et al.* (1996) J. Biol. Chem. **22**:30022.
2. Crosier, K.E. and P.S Crosier (1997) Pathology **29**:131.

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