

Mouse Flt-3/Flk-2 Alexa Fluor® 532-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 113315 Catalog Number: FAB768X

100 µg

DESCRIPTION					
Species Reactivity	Mouse				
Specificity	Detects mouse FIt-3/FIk-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human (rh) FIt-3 is observed and no cross-reactivity with rhPDGF-Rα, rhPDGF-Rβ, or rhSCF-R is observed.				
Source	Monoclonal Rat IgG _{2A} Clone # 113315				
Purification	Protein A or G purified from hybridoma culture supernatant				
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Flt-3/Flk-2 Asn28-Ser544 Accession # Q00342				
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm				
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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PREF	PARATIC	IN AND S	TORA	3E		

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

The FIt-3 (*fins*-like tyrosine kinase) receptor, also named FIk-2 (fetal liver kinase) and Stk-1 (stem cell tyrosine kinase), is a member of the class III subfamily of receptor tyrosine kinases. This family includes KIT, the receptor for SCF, and C-FMS, the receptor for M-CSF. The extracellular region of these receptors contains five immunoglobulin-like domains and the intracellular region contains a split kinase domain. Mouse FIt-3 cDNA encodes a 992 amino acid (aa) type I membrane protein with a 27 aa signal peptide, a 517 aa extracellular domain with 10 potential N-linked glycosylation sites, a 20 aa transmembrane domain and a 428 aa cytoplasmic domain. Mouse FIt-3 shares 85% aa sequence identity with human FIt-3. FIt-3 expression has been detected in various tissues, including placenta, gonads, and tissues of nervous and hematopoietic origin. Among hematopoietic cells, the expression of FIt-3 was found to be restricted to the highly enriched stem/progenitor cell populations. The ligand for FIt-3 (FL) has been identified to be a transmembrane protein with structural homology to M-CSF and SCF. Recombinant soluble FIt-3/Fc chimeric protein has been shown to bind FL with high affinity and is a potent FL antagonist.

PRODUCT SPECIFIC NOTICES

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