### RD SYSTEMS a biotechne brand

## Mouse ICOS Alexa Fluor® 594-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2317C Catalog Number: FAB1682T 100 µg

Species Reactivity	Mouse		
Specificity	Detects mouse ICOS in direct ELISAs.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 2317C		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Chinese Hamster Ovary cell line, CHO-derived mouse ICOS Met1-Leu142 Accession # Q9WVS0		
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm		
Formulation	Emission Wavelength: 617 nm 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 <sup>6</sup> cells	HEK293 Human Cell Line Transfected with Mouse ICOS and eGFP	

# 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.

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

#### BACKGROUND

Mouse ICOS (inducible co-stimulator), also called AILIM (activiation-inducible lymphocyte immunomediatory molecule) and CRP-1 (CD28-related protein-1), is a member of the CD28 family of immune costimulatory receptors. Other family members are CD28, CTLA-4 and PD-1. Mouse ICOS is a homodimeric type I transmembrane protein consisting of 200 amino acids (aa) with a putative 20 aa signal sequence, a 122 aa extracellular domain, a 23 aa transmembrane region, and a 35 aa cytoplasmic domain. ICOS shares approximately 39% aa similarity with CD 28 and CTLA-4. Mouse and human ICOS share approximately 72% aa identity. ICOS is expressed on most CD45RO<sup>+</sup> cells. ICOS expression is upregulated within approximately 24-48 hours of activation on T<sub>h</sub> primed cells. B7-H2, a member of the B7 family of costimulatory ligands, has been identified as the ICOS ligand. The B7-H2/ICOS interaction appears to play roles in T cell dependent B cell activation and T<sub>h</sub> differentiation.

#### References:

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- 3. Yoshinaga, S.K. et al. (1999) Nature 402:827.
- 4. Hutloff, A. et al. (1999) Nature 397:263.
- 5. Aicher, A. et al. (2000) J. Immunol. 164:4689.
- 6. Coyle, A.J. *et al.* (2000) Immunity **13**:95.
- 7. Gonzalo, J.A. *et al.* (2001) J. Immunol. **166**:1

#### PRODUCT SPECIFIC NOTICES

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