

Product datasheet for **TA320353**

ICOS Mouse Monoclonal Antibody [Clone ID: ISA-3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	ISA-3
Applications:	FC
Recommended Dilution:	Flow, IHC, Functional Assay, IP
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	inducible T-cell costimulator
Database Link:	NP_036224 Entrez Gene 29851 Human Q9Y6W8



[View online »](#)

Background:

The ISA-3 monoclonal antibody reacts with human ICOS (Inducible COStimulatory molecule), also known as H4, CRP-1 and AILIM. ICOS is a T cell specific activation molecule and a third member of the CD28/CTLA-4 family. Human ICOS has a relative molecular mass of 55-60 kDa, composed of 27 kDa and 29 kDa chains. Human ICOS on activated T cells has potent costimulatory activity for T cell activation and is required for humoral immune responses, in particular for memory B cell and plasma cell generation. ICOS binds to its ligand, B7h/B7RP-1 expressed on activated APCs (antigen presenting cells) and on a number of inflamed peripheral tissues. Plate-bound ISA-3 is costimulatory for T cells and induces production of IL-4, IL-5, IL-10 and other cytokines, but not IL-2. ISA-3 has the same reactivity pattern and characteristics as F44. ISA-3 was generated against the human ICOS antigen. C398.4A, anti-mouse ICOS/H4 (cat. 14-9949), was shown to cross-react with human ICOS but binds to an epitope different from ISA-3. C398.4A stains activated cells brighter than ISA-3; however, it also exhibits higher staining of non-activated human peripheral blood or isolated PBMC. To achieve the brightest staining of ICOS on activated human T cells, please use 13-9948 or 12-9948 rather than 11-9948.

Synonyms:

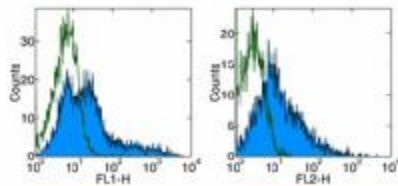
AILIM; CD278; CVID1

Protein Families:

Secreted Protein, Transmembrane

Protein Pathways:

Cell adhesion molecules (CAMs), Primary immunodeficiency, T cell receptor signaling pathway

Product images:

Staining of CD3 + CD28 stimulated human PBMC with Anti-Human CD278 (ICOS) FITC (left), and Anti-Human CD278 (ICOS) PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis