

**ICOS Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF2982a

**Specification**

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**ICOS Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">O9Y6W8</a>
Other Accession	<a href="#">NP_036224.1</a> , <a href="#">29851</a> , <a href="#">54167 (mouse)</a>
Predicted	Human, Mouse
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	22625

**ICOS Antibody (internal region) - Additional Information**

**Gene ID** 29851

**Other Names**

Inducible T-cell costimulator, Activation-inducible lymphocyte immunomediatory molecule, CD278, ICOS, AILIM

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ICOS Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**ICOS Antibody (internal region) - Protein Information**

**Name** ICOS

**Synonyms** AILIM

**Function**

Stimulatory receptor expressed in activated or antigen-experienced T-cells that plays an important role in the immune response (PubMed: [9930702](http://www.uniprot.org/citations/9930702)). Upon binding to its ligand ICOSL expressed on antigen presenting cells (APCs), delivers costimulatory signals that enhances all basic T-cell responses to a foreign antigen, namely proliferation, secretion of

lymphokines including IL10, up-regulation of molecules that mediate cell-cell interaction, and effective help for antibody secretion by B-cells (PubMed:<a href="http://www.uniprot.org/citations/33033255" target="\_blank">33033255</a>). Acts also as a costimulatory receptor critical for the differentiation of T follicular regulatory cells upon immune challenges such as viral infection (PubMed:<a href="http://www.uniprot.org/citations/27135603" target="\_blank">27135603</a>). Mechanistically, potentiates TCR-induced calcium flux by augmenting PLCG1 activation and actin remodeling (By similarity). In addition, activates PI3K signaling pathways independently of calcium flux (PubMed:<a href="http://www.uniprot.org/citations/30523347" target="\_blank">30523347</a>). Essential both for efficient interaction between T and B-cells and for normal antibody responses to T-cell dependent antigens. Prevents the apoptosis of pre-activated T-cells. Plays a critical role in CD40-mediated class switching of immunoglobulin isotypes (By similarity).

#### **Cellular Location**

[Isoform 1]: Cell membrane; Single-pass type I membrane protein

#### **Tissue Location**

Activated T-cells. Highly expressed on tonsillar T- cells, which are closely associated with B-cells in the apical light zone of germinal centers, the site of terminal B-cell maturation. Expressed at lower levels in thymus, lung, lymph node and peripheral blood leukocytes. Expressed in the medulla of fetal and newborn thymus

#### **ICOS Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **ICOS Antibody (internal region) - Images**

#### **ICOS Antibody (internal region) - References**

Expression of ICOS on human melanoma-infiltrating CD4<sup>+</sup>CD25<sup>high</sup>Foxp3<sup>+</sup> T regulatory cells: implications and impact on tumor-mediated immune suppression. Strauss L, Bergmann C, Szczepanski MJ, Lang S, Kirkwood JM, Whiteside TL, J Immunol. 2008 Mar 1;180(5):2967-80. PMID: 18292519