

ARG57120 anti-CD152 / CTLA4 antibody [4C8]

Package: 50 µl
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Mouse Monoclonal antibody [4C8] recognizes CD152 / CTLA4 |
| Tested Reactivity | Hu, Ms |
| Tested Application | FACS, ICC/IF, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 4C8 |
| Isotype | IgG1, kappa |
| Target Name | CD152 / CTLA4 |
| Species | Human |
| Immunogen | Recombinant fragment around aa. 36-161 of Human CD152 / CTLA4 |
| Conjugation | Un-conjugated |
| Alternate Names | GRD4; CTLA-4; CELIAC3; CD; Cytotoxic T-lymphocyte-associated antigen 4; CD152; GSE; CD antigen CD152; Cytotoxic T-lymphocyte protein 4; ALPS5; IDDM12 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|--------------------------------|
| | FACS | 2 - 5 µg/10 ⁶ cells |
| | ICC/IF | 1:100 |
| | WB | 1:1000 |

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

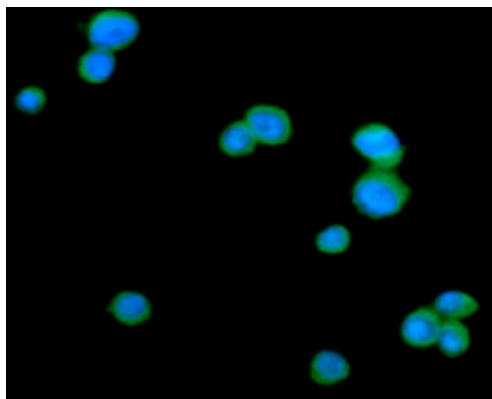
| | |
|---------------------|---|
| Form | Liquid |
| Purification | Purification with Protein A. |
| Buffer | PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 10% Glycerol |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

| | |
|----------------|---|
| Database links | GeneID: 12978 Mouse GeneID: 1436 Human Swiss-port # P07333 Human Swiss-port # P09581 Mouse |
| Gene Symbol | CTLA4 |
| Gene Full Name | cytotoxic T-lymphocyte-associated protein 4 |
| Background | This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases. [provided by RefSeq, Jul 2008] |
| Function | Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28. [UniProt] |
| Highlight | Related products: CD152 antibodies: Anti-Mouse IgG secondary antibodies: Related news: New PD-1 ELISA Kit, excellent for preclinical studies or pharmaceutical development Why anti-PD-1/PD-L1 therapy doesn't work? |
| Calculated Mw | 25 kDa |
| PTM | N-glycosylation is important for dimerization. Phosphorylation at Tyr-201 prevents binding to the AP-2 adapter complex, blocks endocytosis, and leads to retention of CTLA4 on the cell surface. |

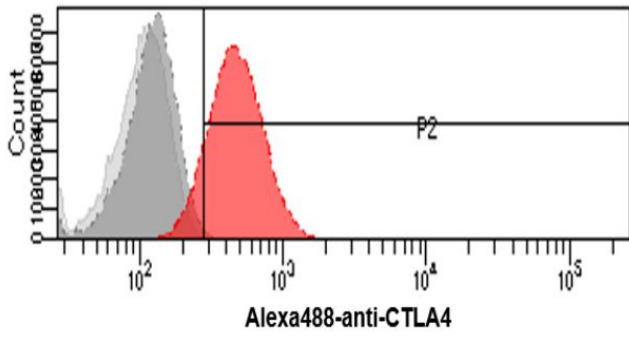
Images



ARG57120 anti-CD152 / CTLA4 antibody [4C8] ICC/IF image

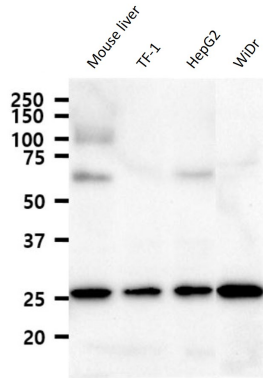
Immunofluorescence: Jurkat cells stained with ARG57120 anti-CD152 / CTLA4 antibody [4C8] (green) at 1:100 dilution. DAPI (blue) for nucleus staining.

ARG57120 anti-CD152 / CTLA4 antibody [4C8] FACS image



Flow Cytometry: HeLa cells stained with ARG57120 anti-CD152 / CTLA4 antibody [4C8] at 2-5 μg / 10^6 cells (red). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

ARG57120 anti-CD152 / CTLA4 antibody [4C8] WB image



Western blot: 40 μg of Mouse liver, TF-1, HepG2 and WiDr cell lysates stained with ARG57120 anti-CD152 / CTLA4 antibody [4C8] at 1:1000 dilution.