Datasheet for ABIN6261810
anti-FOXP3 antibody (C-Term)

## 3 Images



Overview

| Quantity: | $100 \mu \mathrm{~L}$ |
| :--- | :--- |
| Target: | FOXP3 |
| Binding Specificity: | C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This FOXP3 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), |
|  | Immunoprecipitation (IP), Immunocytochemistry (ICC) |

## Product Details

| Immunogen: | A synthesized peptide derived from human Foxp3, corresponding to a region within C-terminal |
| :--- | :--- |
| amino acids. |  |
| Isotype: | IgG |
| Specificity: | Foxp3 Antibody detects endogenous levels of total Foxp3. |
| Predicted Reactivity: | Pig,Bovine,Horse,Sheep,Rabbit,Dog |
| Purification: | The antiserum was purified by peptide affinity chromatography using SulfoLink ${ }^{\text {TM }}$ Coupling |
| Resin (Thermo Fisher Scientific). |  |
| Target Details |  |
| Target: | FOXP3 |


| Alternative Name: | FOXP3 (FOXP3 Products) |
| :---: | :---: |
| Background: | Description: Transcriptional regulator which is crucial for the development and inhibitory function of regulatory T-cells (Treg). Plays an essential role in maintaining homeostasis of the immune system by allowing the acquisition of full suppressive function and stability of the Treg lineage, and by directly modulating the expansion and function of conventional T-cells. Can act either as a transcriptional repressor or a transcriptional activator depending on its interactions with other transcription factors, histone acetylases and deacetylases. The suppressive activity of Treg involves the coordinate activation of many genes, including CTLA4 and TNFRSF18 by FOXP3 along with repression of genes encoding cytokines such as interleukin-2 (IL2) and interferon-gamma (IFNG). Inhibits cytokine production and T-cell effector function by repressing the activity of two key transcription factors, RELA and NFATC2 (PubMed:15790681). Mediates transcriptional repression of IL2 via its association with histone acetylase KAT5 and histone deacetylase HDAC7 (PubMed:17360565). Can activate the expression of TNFRSF18, IL2RA and CTLA4 and repress the expression of IL2 and IFNG via its association with transcription factor RUNX1 (PubMed:17377532). Inhibits the differentiation of IL17 producing helper T-cells (Th17) by antagonizing RORC function, leading to down-regulation of IL17 expression, favoring Treg development (PubMed:18368049). Inhibits the transcriptional activator activity of RORA (PubMed:18354202). Can repress the expression of IL2 and IFNG via its association with transcription factor IKZF4 (By similarity). <br> Gene: FOXP3 |
| Molecular Weight: | 47 kDa |
| Gene ID: | 50943 |
| UniProt: | Q9BZS1 |
| Pathways: Application Details | Chromatin Binding, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Activated T Cell Proliferation |
| Application Notes: | WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, IP, ELISA(peptide) 1:20000-1:40000 |
| Restrictions: | For Research Use only |
| Handling |  |
| Format: | Liquid |

Handling

| Concentration: | $1 \mathrm{mg} / \mathrm{mL}$ |
| :--- | :--- |
| Buffer: | Rabbit IgG in phosphate buffered saline, $\mathrm{pH} 7.4,150 \mathrm{mM} \mathrm{NaCl}, 0.02 \%$ sodium azide and $50 \%$ <br> glycerol. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which <br> should be handled by trained staff only. |
| Storage: | $-20^{\circ} \mathrm{C}$ |
| Storage Comment: | Store at $-20^{\circ} \mathrm{C}$. Stable for 12 months from date of receipt. |
| Expiry Date: | 12 months |

Images


## Immunofluorescence (fixed cells)

Image 1. ABIN6268934 staining MCF-7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1\% Triton X-100,then blocked in 10\% serum for 45 minutes at $25^{\circ} \mathrm{C}$. The primary antibody was diluted at $1 / 200$ and incubated with the sample for 1 hour at $37^{\circ} \mathrm{C}$. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.\# S0006), diluted at $1 / 600$, was used as secondary antibody.

## Western Blotting

Image 2. Western blot analysis of FOXP3 expression in A549 cells. The lane on the left is treated with the antigenspecific peptide.


## Immunohistochemistry

Image 3. ABIN6268934 at $1 / 100$ staining Human brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at $22^{\circ} \mathrm{C}$. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

