FOXP3 ABfinity™
Recombinant Rabbit
Monoclonal Antibody – Purified
Catalog no. 700020
(See product label for lot information)

Clone/PAD: 5H5L12
Isotype: IgG
Gene ID: 50943
Protein Acc. no.: Q9BZS1
Qty: 100 µg
Volume: 200 µl
Concentration: 0.5 mg/mL

Formulation
PBS + 0.09% sodium azide

Validation
Validated for use in IF

Immunogen
Recombinant protein

Sequence Identity
Human

Sequence Homology
Bovine, cat, swine and rat

Expected Reactivity
Based on sequence identity and similarity, reactivity to Human, bovine, cat, swine and rat are expected.

Storage
2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

Expiration Date
Expires one year from date of receipt when stored as instructed.

Background
FOXP3 (FORKHEAD BOX P3) belongs to the FOX protein family and the master regulator in T-Cell development and function (1). The gene encodes protein which is a member of the forkhead/winged-helix family of transcriptional regulators (2,3). It is shown that in human breast and colon cancer cells, expression of FOXP3 is regulated by p53 in response to the DNA damage. FOXP3 is selectively expressed by a subset of CD4+ T cells, known as T regulatory (Treg) cells, which suppress effector T cell function in response to self or foreign antigens. T regulatory (Treg) cells, known to suppress T cell activity during response to foreign or self antigen selectively express FOXP3 (4, 5).

References

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

Applications:

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<th>Species</th>
<th>Test Material</th>
<th>Concentration</th>
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<tr>
<td>Immunofluorescence</td>
<td>Human</td>
<td>HeLa</td>
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Immunocytochemistry of HeLa cells labeled with rabbit anti-FOXP3 (Cat. No. 700020).

HeLa cells were labeled with rabbit anti-FOXP3 (5µg/ml). Alexa Fluor® 488 goat anti-rabbit (Cat. No. A11008) was used at 1:1000 as secondary antibody. Images shown from TOP left to right: DAPI only (blue), AF488 signal only (green) and BOTTOM left to right: Alexa Fluor® 594 Phalloidin (red) and the composite image.