Human FoxP4 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6854

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FoxP4 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) FoxP1, rhFoxP2, rhFoxP3, and rhCTBP1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human FoxP4 Pro549-Ser680 Accession # Q8IVH2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

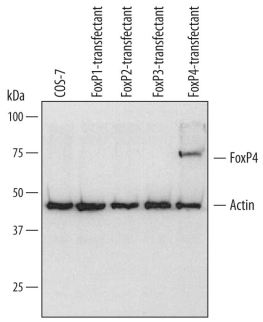
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1:1000 dilution	See Below

DATA

Western Blot



Detection of Human FoxP4 by Western Blot. Western blot shows lysates of COS-7 African green monkey SV40 transformed kidney fibroblast-like cell line either mock transfected, transfected with human FoxP1, transfected with human FoxP2, transfected with human FoxP3, or transfected with human FoxP4. PVDF membrane was probed with 1:1000 dilution of Sheep Anti-Human FoxP4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6854) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody. For additional reference, the membrane was co-probed with an Anti-Actin Antibody. A specific band was detected for FoxP4 at approximately 75 kDa and Actin at approximately 43 kDa (as indicated). This experiment was conducted under reducing conditions. *Image courtesy of Dr. Alison Banham, Ms. Linden Lyne, and Dr. Paola Bignone, The University of Oxford, Oxford, UK.*

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FoxP4 (Forkhead box protein P4; also FKHLA) is a 70-80 kDa member of the winged helix transcription factor gene family, FoxP subfamily of proteins. It is a transcriptional repressor that is strongly expressed in embryonic gut and lung epithelium, and in neurons both pre-and postnatally. Postnatally, it is found in cerebellar Purkinje cells. During development, it is found in hippocampal hilus, proliferating cells of the ventricular zone, and neurons of the basolateral nucleus of the amygdala. Human FoxP4 is 680 amino acids (aa) in length. It contains a large poly-Gln region (aa 65-219), a C2H2 Zn-finger domain (aa 307-332), a Leu-zipper dimerization motif (aa 349-370) and a forkhead DNA binding domain (aa 467-559). Phosphorylation occurs at Ser360. FoxP4 forms homodimers, and heterodimers with FoxP1 and FoxP2; it does not bind CTBP1. One potential splice form shows a deletion of aa 384-395. Over aa 549-680, human and mouse FoxP4 share 89% aa identity.

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