

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse FoxP2 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FoxP2 isoform 1 Ala640-Glu715 Accession # O15409
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

FoxP2 (Forkhead box protein P2; also CAGH44) is an 85-95 kDa member of the winged helix transcription factor gene family. It is a transcriptional repressor that is expressed principally in gut and lung epithelium, and in neurons involved in speech and language. Human FoxP2 is 715 amino acids (aa) in length. It contains a huge poly-Gln region (aa 123-231), a C2H2 Zn-finger domain (aa 346-371), a Leu-zipper segment (aa 388-409) and a forkhead DNA binding domain (aa 504-594). FoxP2 both homodimerizes and heterodimerizes with FoxP1 and P4, and binds CTBP1. There are multiple splice variants. There is an alternate start site at Met93, an 11 aa substitution for aa 57-715, a 25 aa insert after Gln86, an 11 aa substitution for aa 133-715, and a ten aa substitution for aa 423-715. Over aa 587-715, human and mouse FoxP2 are (100%) identical in aa sequence.

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