

Rabbit FOXP2 Polyclonal Antibody | anti-FOXP2 antibody

Anti-FOXP2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254701	Rabbit	Human Predicted to React with: Mouse, Rat, Rhesus (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Western Blot

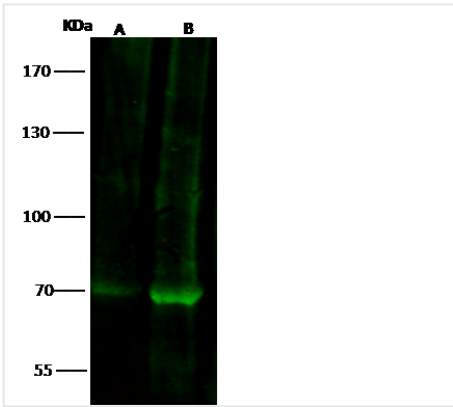
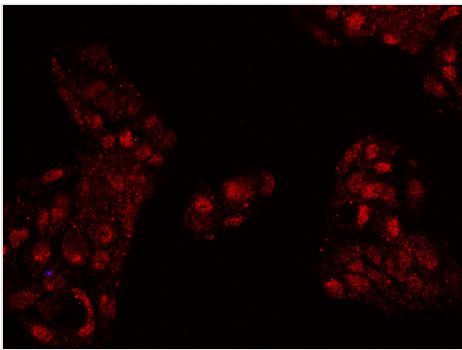
PRODUCT SYNONYMS

FOXP2; Polyclonal Antibody; Anti-FOXP2 Antibody; Rabbit Polyclonal; FOXP2 Antibody; Rabbit PAb; Antigen Affinity Purified; forkhead box P2; Anti-CAGH44 Antibody; Anti-SPCH1 Antibody; Anti-TNRC10 Antibody; anti-FOXP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat, Rhesus (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human FOXP2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-FOXP2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Human FOXP2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human FOXP2, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of FOXP2 in HepG2 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human FOXP2 polyclonal antibody (1:5000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to nucleus.

WB (Western Blot)
Anti-FOXP2 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: HEK293 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 80 kDa Observed band size: 70 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-FOXP2 antibody	Forkhead box (FOX) proteins are a ubiquitously expressed family of transcription factors that regulate the development and differentiation of a wide range of tissues in animals. The FOXP subfamily members are the only known FOX proteins capable of forming domain-swapped forkhead domain (FHD) dimers. The change in dynamics of the hinge-loop region of FOXP2 alters the energetics and mechanism of DNA binding highlighting the critical role of hinge loop mutations in regulating DNA binding characteristics of the FOX proteins. FOXP2 is a transcription factor expressed in multiple tissues during embryonic development. FOXP2 regulates transcription by binding to DNA at its DNA binding domain, the forkhead domain (FHD) through the recognition helix. FOXP2 as a novel suppressor and prognostic marker of breast cancer metastasis. FOXP2 encodes a transcription factor involved in speech and language acquisition. Mutations of the FOXP2 gene cause a severe speech and language disorder, providing a molecular window into the neurobiology of language.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	289666732
NCBI GeneID	93986
NCBI Accession #	NP_001166237.1
NCBI GenBank Nucleotide #	NM_001172766.2
UniProt Accession #	O15409; Q6ZND1; Q75MJ3; Q8IZE0; Q8N0W2; Q8N6B7; Q8N6B8; Q8NFB1; A0AUV6; A4D0U8; A6NNW4; B4DLD9
Molecular Weight	81,840 Da
NCBI Official Full Name	forkhead box protein P2 isoform V
NCBI Official Synonym Full Names	forkhead box P2
NCBI Official Symbol	FOXP2
NCBI Official Synonym Symbols	SPCH1; CAGH44; TNRC10
NCBI Protein Information	forkhead box protein P2; CAG repeat protein 44; forkhead/winged-helix transcription factor; trinucleotide repeat containing 10; trinucleotide repeat-containing gene 10 protein
UniProt Protein Name	Forkhead box protein P2
UniProt Gene Name	FOXP2

UniProt Synonym Gene Names	CAGH44; TNRC10
UniProt Entry Name	FOXP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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