

Anti-ZBTB7A Antibody Picoband® Fluoro550 Conjugated

Catalog Number: PB9910-Fluoro550

About ZBTB7A

Zinc finger and BTB domain-containing protein 7A is a protein that in humans is encoded by the ZBTB7A gene. ZBTB7A has a critical oncosuppressive role in the prostate. Prostate-specific inactivation of ZBTB7A leads to a marked acceleration of PTEN loss-driven prostate tumorigenesis through bypass of PTEN loss-induced cellular senescence. It has been shown that ZBTB7A physically interacts with SOX9 and functionally antagonizes its transcriptional activity on key target genes such as MIA, which is involved in tumor cell invasion, and H19, a long noncoding RNA precursor for an RB-targeting microRNA. Inactivation of ZBTB7A in vivo leads to RB downregulation, bypass of PTEN loss-induced cellular senescence, and invasive prostate cancer. Notably, it has been also found that ZBTB7A is genetically lost, as well as downregulated at both the mRNA and protein levels, in a subset of human advanced prostate cancers. Therefore, ZBTB7A is identified as a context-dependent cancer gene that can act as an oncogene in some contexts but that also has oncosuppressive-like activity in PTEN-null tumors.

Overview

Product Name	Anti-ZBTB7A Antibody Picoband® Fluoro550 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	O95365

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ZBTB7A, different from the related mouse sequence by eleven amino acids, and from the related rat sequence by ten amino acids.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro550

	Excitation Wavelength: 562 nm Emission Wavelength: 576 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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