

## Product datasheet for **TA306445**

### carabin (TBC1D10C) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 2.5 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Carabin antibody was raised against a 16 amino acid peptide from near the carboxy terminus of human Carabin.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	TBC1 domain family member 10C
Database Link:	<a href="#">NP_940919</a> <a href="#">Entrez Gene 108995 Mouse</a> <a href="#">Entrez Gene 374403 Human</a> <a href="#">Q8IV04</a>



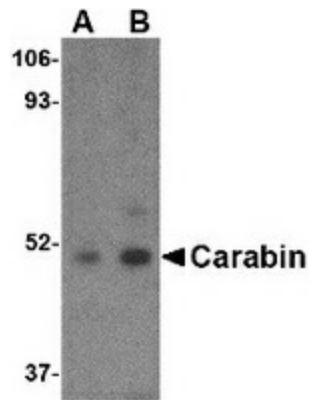
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**Background:**

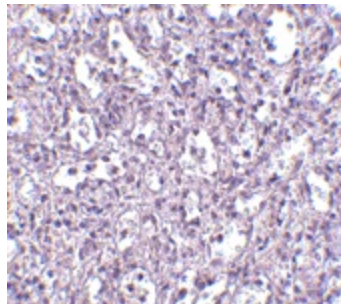
Antigen binding by the T-cell receptor (TCR) is one of the critical first steps in the immune response, triggering a cascade of signaling pathways that ultimately lead to T-cell activation. Screening a yeast two-hybrid screen of a human T-cell cDNA library with calcineurin, a protein phosphatase involved in multiple signaling pathways including T-cell activation, resulted in the identification of Carabin, a member of the TBC1 domain family of proteins, as a calcineurin-binding protein. Unlike other members of the TBC1 domain protein family which are thought to have a role in regulating cell growth and differentiation, further experiments demonstrated that Carabin is part of a negative regulatory loop for the intracellular TCR signaling pathway as well as an inhibitor of the Ras signaling pathway, suggesting that Carabin may also mediate crosstalk between calcineurin and Ras. Carabin antibody does not recognize TBC1D10A or TBC1D10B. Carabin is known to exist in multiple isoforms.

**Synonyms:**

CARABIN; EPI64C

**Product images:**

Western blot analysis of Carabin in Daudi cell lysate with Carabin antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of Carabin in human spleen tissue with Carabin antibody at 2.5 ug/ml.