



# Rabbit Anti-14-3-3 Theta monoclonal antibody, clone TE195-03 (CABT-L812)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	14-3-3 Theta
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TE195-03
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, FC
<b>Molecular Weight</b>	28 kDa
<b>Cellular Localization</b>	Cytoplasm.
<b>Positive Control</b>	A431, MCF-7, HeLa, A549.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

**Storage**

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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## BACKGROUND

**Introduction**

14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms comprise this family of signaling intermediates, denoted 14-3-3  $\beta$ ,  $\gamma$ ,  $\epsilon$ ,  $\zeta$ ,  $\eta$ ,  $\theta$  and  $\sigma$ . 14-3-3 proteins form dimers that present two binding sites for ligand proteins, thereby bringing together two proteins that may not otherwise associate. These ligands largely share a 14-3-3 consensus binding motif and exhibit serine/threonine phosphorylation. 14-3-3 proteins function in broad regulation of these ligand proteins, by cytoplasmic sequestration, occupation of interaction domains and import/export sequences, prevention of degradation, activation/repression of enzymatic activity and facilitation of protein modification, and thus loss of expression contributes to a vast array of pathogenic cellular activities.

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**Keywords**

14-3-3;14-3-3 protein T-cell;14-3-3 protein tau;14-3-3 protein theta;1C5;HS1;theta polypeptide;tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein;tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta isoform;tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide antibody

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