



# Rabbit Anti-14-3-3 Theta monoclonal antibody, clone KK195-4 (CABT-L828)

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

## PRODUCT INFORMATION

|                       |                                      |
|-----------------------|--------------------------------------|
| Target                | 14-3-3 Theta                         |
| Immunogen             | Recombinant protein                  |
| Isotype               | IgG                                  |
| Source/Host           | Rabbit                               |
| Species Reactivity    | Human, Mouse, Rat                    |
| Clone                 | KK195-4                              |
| Purification          | Protein A purified.                  |
| Conjugate             | Unconjugated                         |
| Applications          | WB                                   |
| Molecular Weight      | 28/19 kDa                            |
| Cellular Localization | Cytoplasm, Melanosome.               |
| Positive Control      | NIH/3T3, HT29, human skin tissue.    |
| Format                | Liquid                               |
| Size                  | 100 µl                               |
| Buffer                | 1×TBS (pH7.4), 1% BSA, 40% Glycerol. |
| Preservative          | 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**

The 14-3-3 family of proteins are important regulatory molecules ubiquitously expressed in all eukaryotic cells which bind to numerous signaling proteins in various pathways driving critical cellular pathways of apoptosis, differentiation and cell cycle. 14-3-3 theta specifically has also been shown to play an important regulatory role in the TLR2 signaling pathways as a negative regulator of TLR2 ligand Pam3CySk4 induced NF- $\kappa$ B activation. 14-3-3 theta has previously been shown to interact with TLR4 ligand and MyD88 dependent phosphorylated PkC epsilon. 14-3-3 theta in the TLR4 signaling pathway is a positive regulator controlling release of IRF3 induced pro-inflammatory cytokines RANTES and IP-10. Currently identified by mass spec as part of the TLR2 signaling complex and taken along with TLR4 data, a 14-3-3 theta antibody can be used to examine the different regulatory functions of 14-3-3 theta for different TLRs through its interaction with common or unique TLR signaling adaptor molecules in addition to MyD88 or PkC epsilon such as TRAM or TRIF allowing further clarification of TLR specific pathway regulation.

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