Data Sheet (Cat.No.TMAC-00006)

TargetMol

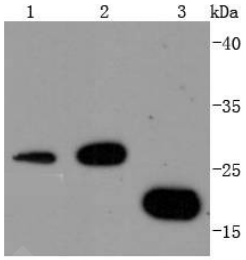
Anti-14-3-3 beta/alpha Antibody (3T62)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 28/19 kDa.
Clone:	3T62
Purification:	ProA affinity purified

Applications

Verified Activity: 1. Western blot analysis of 14-3-3 on different lysates using anti-14-3-3 antibody at 1/1,000 dilution. Positive control: Lane 1: HT29, Lane 2: Human skin, Lane 3: NIH/3T3.



Application:	WB
Recommended	WB: 1:1000-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P31946
Synonyms:	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, β;HEL-S-1; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta;14-3-3 β; HS1;GW128;YWHAA;KCIP-1

Research Background

The 14-3-3 family of proteins are important regulatory molecules ubiquitiously expressed in all eukarryotic 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-kB 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 indcuded 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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