



Rabbit Anti-TIA1 monoclonal antibody, clone KN53-22 (CABT-L930)

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

PRODUCT INFORMATION

Target	TIA1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	KN53-22
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, IP
Cellular Localization	Cytoplasmic granule. Nucleus.
Positive Control	Jurkat, 293T, A431, Hela, human tonsil tissue, human spleen 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

BACKGROUND

Introduction

FAS, also referred to as CD95 or APO-1, is a type I transmembrane protein that plays a central role mediating viral immunity. TIA-1 and TIAR are two closely related proteins that possess three RRM (RNA recognition motifs), designated RRM 1, 2 and 3. Although both TIA-1 and TIAR are thought to function as mediators of apoptotic cell death, their specific roles in such pathways are unknown. Unlike TIA-1, which is found in the granules of cytotoxic lymphocytes, TIAR expression is limited to the nucleus and found in a much broader range of cells including, but not limited to, cells of hematopoietic origin. TIAR is translocated to the cytoplasm shortly after FAS ligation and this event immediately proceeds the onset of DNA fragmentation. A novel serine/threonine kinase that is activated as a result of FAS ligation, designated FAST (FAS-activated serine/threonine), shows kinase specificity towards both TIA-1 and TIAR. In unstimulated Jurkat cells, FAST resides in the cytoplasm as a highly phosphorylated protein and is quickly dephosphorylated and activated in response to stimulated FAS.

Keywords

Cytotoxic granule associated RNA binding protein 1;Cytotoxic granule associated RNA binding protein;mTIA-1;Nucleolysin TIA 1 isoform p40;Nucleolysin TIA-1 isoform p40;Nucleolysin TIA1 isoform p40;p40 TIA 1;p40-TIA-1 (containing p15-TIA-1);p40-TIA-1;RNA binding protein TIA 1;RNA binding protein TIA1;RNA-binding protein TIA-1;T-cell-restricted intracellular antigen-1;TIA 1;TIA 1 cytotoxic granule associated RNA binding protein;Tia;TIA-1;TIA1;TIA1 cytotoxic granule associated RNA binding protein;TIA1 cytotoxic granule associated RNA binding protein like 1;TIA1 protein;TIA1_HUMAN;TIAL1;TIAR;WDM antibody