Technical Data Sheet

Purified Mouse Anti-Human RIP with Control

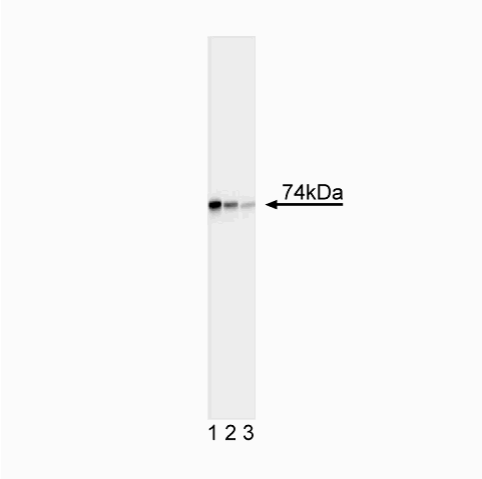
Product Information

Material Number:	**551042**
Size:	150 µg
Reactivity:	QC Testing: Human
Component:	**51-6559GR**
Description:	Purified Mouse Anti-Human RIP
Size:	50 µg (3 ea)
Concentration:	0.25 mg/ml
Clone Name:	G322-2
Immunogen:	truncated RIP fusion protein
Isotype:	Mouse IgG1
Target MW:	74 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Component:	**51-16526N**
Description:	Jurkat Cell Lysate
Size:	50 µg (1 ea)
Concentration:	1.0 mg/ml
Storage Buffer:	SDS-PAGE buffer (62mM Tris pH 6.8, 2% SDS, 0.9% b-mercaptoethanol, 0.003% bromophenol blue, 5% glycerol)

Description

RIP (receptor interacting protein) is a 74 kDa serine/threonine kinase which may be recruited to TNFR type 1 and Fas (CD95) receptor signal complexes following ligand binding. RIP interacts with other signal proteins within these complexes (e.g., RAIDD) and has also been shown to interact with pro-caspase-2. RIP contains an N-terminal kinase domain as well as a C-terminal death domain that is homologous to intracellular death domain of Fas. Over expression of RIP in vitro is sufficient to induce cell death, demonstrating that RIP functions as an apoptosis-inducing protein. Interaction of the Fas death domain with other intracellular proteins like RIP is an important step leading to downstream components in apoptotic signaling pathways.

Clone G322-2 recognizes human RIP. A recombinant truncated human RIP:tagged fusion protein, lacking the kinase domain of RIP, was used as immunogen. The specificity of the antibody was verified by ELISA, immunoprecipitation and western blot analysis. The antibody is routinely tested by western blot analysis in human Jurkat T cells where it recognizes RIP as a 74 kDa band. Smaller molecular weight breakdown bands of ~30 kDa, 22 kDa, and/or 16 kDa are sometimes observed.



Western blot analysis of RIP. *Lysate from Jurkat cells was probed with anti-RIP (clone G322-2, Comp. No. 51-6559GR) at concentrations of 0.5 (lane 1), 0.25 (lane 2), and 0.125 µg/ml (lane 3). RIP is identified as a band of 74 kDa.*

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Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunoprecipitation	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml. Additional control lysate (Cat. No. 611451) is sold separately.

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Stanger BZ, Leder P, Lee TH, Kim E, Seed B. RIP: a novel protein containing a death domain that interacts with Fas/APO-1 (CD95) in yeast and causes cell death. *Cell.* 1995; 81(4):513-523.(Biology)