Technical Data Sheet

Purified Mouse Anti-NAT1

Product Information

Material Number: 610742

Alternate Name: Novel APOBEC-1 Target no. 1; DAP-5; Death Associated Protein -5

Size $250~\mu\text{g/ml}$ Concentration: 35/NAT1 Clone:

Human NAT1 aa. 672-830 Immunogen:

Isotype: Mouse IgG1 Reactivity: QC Testing: Human

Tested in Development: Mouse, Rat, Dog, Cow

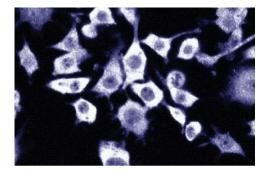
Target MW:

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

Description

eIF-4 proteins are required for recognition of mRNA and acceleration of protein translation. This group of proteins consists of the RNA helicase eIF-4A, the RNA-binding protein eIF-4B, the cap-binding protein eIF-4E, and eIF-4G (p220). NAT1 (Novel APOBEC-1 Target no. 1), also known as DAP-5 (Death Associated Protein -5), is homologous to eIF-4G. Amino acid sequence comparison of NAT1 and eIF-4 shows that NAT1 lacks an eIF-4G N-terminal region. This region mediates eIF-4G association with eIF-4E. The highest degree of homology is within the central portions of NAT1 and eIF-4G, while the lowest degree of homology occurs at the C-terminus. NAT1 more closely resembles a cleaved form of eIF-4G that is involved in cap-independent translation. It is thought that NAT1 is involved in the repression of translation via its inhibition of both cap-dependent and cap-independent translation.





Western blot analysis of NAT1 on a HeLa cell lysate (Human cervical epitheloid carcinoma; ATCC CCL-2). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-NAT1 antibody

Immunofluorescence staining of mouse macrophages.

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

P	Аррисации		
	Western blot	Routinely Tested	
	Immunofluorescence	Tested During Development	
	Immunoprecipitation	Not Recommended	
	Immunohistochemistry	Not Recommended	

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

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.
- 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

Henis-Korenblit S, Strumpf NL, Goldstaub D, Kimchi A. A novel form of DAP5 protein accumulates in apoptotic cells as a result of caspase cleavage and internal ribosome entry site-mediated translation. *Mol Cell Biol.* 2000; 20(2):496-506.(Biology: Western blot)

Levy-Strumpf N, Deiss LP, Berissi H, Kimchi A. DAP-5, a novel homolog of eukaryotic translation initiation factor 4G isolated as a putative modulator of gamma interferon-induced programmed cell death. *Mol Cell Biol.* 1997; 17(3):1615-1625.(Biology)

Yamanaka S, Poksay KS, Arnold KS, Innerarity TL. A novel translational repressor mRNA is edited extensively in livers containing tumors caused by the transgene expression of the apoB mRNA-editing enzyme. *Genes Dev.* 1997; 11(3):321-333.(Biology)

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