Technical Data Sheet

Purified Mouse Anti-Human JNKK

Product Information

Material Number:	**554105**
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	G282-114
Immunogen:	Recombinant Human JNKK
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	45 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

JNKK (JNK kinase) is a member of the mitogen-activated protein kinase (MAPK) kinase family. MAPKK family members are components of key signal transduction cascades that link events at the cell surface to responses in the nucleus. MAPK signaling cascades are found in species as varied as yeast and humans with many of the proteins being well conserved. Members of the MAPK family are activated by dual phosphorylation on threonine and tyrosine in response to a variety of extracellular stimuli. Activation of the JNK (Jun N- terminal kinase)/SAPK (stress-activated protein kinase) MAPK pathway occurs in response to factors that cause stress to the cell, and leads to Jun induced transcription. In this protein kinase cascade, MEKK (MAPK kinase kinase) phosphorylates JNKK, JNKK phosphorylates JNK, and JNK phosphorylates Jun. Phosphorylation increases the transcriptional activity of Jun. JNKK migrates at 45 kDa in SDS-PAGE. Clone G282-114 recognizes human JNKK. It may cross-react with other kinases in the MAP kinase pathway.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4°C.

Application Notes

Application

Western blot	Routinely Tested
Immunoprecipitation	Tested During Development

Recommended Assay Procedure:
Applications western blot analysis (1-2 µg/ml) and immunoprecipitation (1-2 µg/1x10e6 cells).

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)

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.

References

Davis RJ. MAPKs: new JNK expands the group. *Trends Biochem Sci.* 1994; 19(11):470-473.(Biology)

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