

Catalog No. LF-MA0196

MONOCLONAL ANTIBODY



Anti-TAK1 binding protein 1 (TAB 1)

Background : TAK1 (transforming growth factor- β -activated kinase 1) is a MAPKKK activated by TGF- β , or the pro-inflammatory cytokines TNF (tumour necrosis factor) and IL-1 (interleukin-1), or bacterial LPS (lipopolysaccharide). It plays a key role in switching on several pro-inflammatory signaling pathways, including those that activate the MAPKs (mitogen-activated protein kinases), termed p38 α MAPK, JNK1/2 (c-Jun N-terminal kinase 1/2) and ERK1/2 (extracellular-signal-regulated kinase 1/2), as well as the transcription factor NF κ B (nuclear factor κ B).

TAB1 (TAK1-binding protein 1) is one of the regulatory subunits of TAK1 and plays a role as an activator of TAK1 in response to stimulation of TGF- β . TAB-1 can also mediate MKK-independent p38 kinase. Recently, induction of p38 autophosphorylation and consequent kinase activation by TAB1 expression in cultured neonatal cardiomyocytes have been reported.

Immunogen : Recombinant human protein purified from E.coli (His-TAB1(1~300))

Host : Mouse

Clone number : 2D3

Isotype : IgG2a, k

Size : 100 μ l

Compositon : Hepes with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

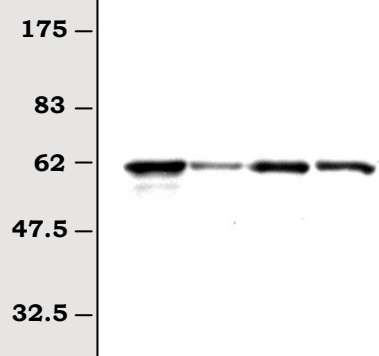
Positive control : K562 cell lysate

Storage : Store for 1 year at -20°C from date of shipment

Species cross reactivity

Human	Mouse	Rat
+	+	+

M.W.(kDa) 1 2 3 4



Immunoblot Analysis of cell lysates

Lane 1 : K562 cell lysate

Lane 2 : L929 cell lysate

Lane 3 : C6 cell lysate

Lane 4 : HeLa cell lysate

Applications :

ELISA

Western blotting (1: 5,000 ~10,000)

Background Reference :

1) Sun P. et al., 2007, Cell. 128:295-308

2) New L. et al., 1998, EMBO J. 17:3372-3384

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NOT FOR DIAGNOSTIC OR THERAPEUTIC USE