

Catalog No. LF-MA0195

MONOCLONAL ANTIBODY



## Anti-PRAK (MAPKAPK5)(13H5)

**Background :** PRAK is a 471 amino acid protein with 20-30% sequence identity to the known MAP kinase-regulated protein kinases RSK1/2/3, MNK1/2 and MAPKAPK2/3.

The p38 mitogen-activated protein kinase (MAPK) pathway plays an important role in cellular responses to inflammatory stimuli and environmental stress. There are at least six protein kinases that can be regulated by p38 $\alpha$  and/or p38 $\beta$ . These downstream kinases of p38s include MAPK-activated protein kinase 2 (MAPKAPK2 or MK2), MAPKAPK3, MAPK-interacting kinase 1 (MNK1), MNK2, p38-activated/regulated protein kinase (PRAK or MAPKAPK5), and mitogen- and stress-activated protein kinase (MSK). PRAK can be activated in response to cellular stress and proinflammatory cytokines. T182 within the activation loop of PRAK has been determined to be the regulatory phosphorylation site. PRAK has been reported to be essential for ras-induced senescence and tumor suppression. PRAK mediates senescence upon activation by p38 in response to oncogenic ras.

**Immunogen :** Recombinant human protein purified from *E.coli* (His-PRAK)

**Host :** Mouse

**Clone number :** 13H5

**Isotype :** IgG1, k

**Size :** 100  $\mu$ l

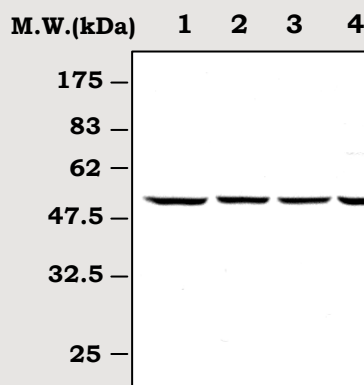
**Compositon :** HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

**Positive control :** A431 cell lysate

**Storage :** Store for 1 year at  $-20^{\circ}\text{C}$  from date of shipment

### Species cross reactivity

Human +	Mouse +	Rat +
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**Immunoblot Analysis** of cell lysates

Lane 1 : A431 cell lysate

Lane 2 : 293T cell lysate

Lane 3 : NCI-H460 cell lysate

Lane 4 : WI-38

### 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