bs-1851R **[Primary Antibody]**

MKP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1843 **SWISS:** P28562

Target: MKP1

Immunogen: KLH conjugated synthetic peptide derived from human DUSP1: 151-250/367.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and phosphotyrosine residues.

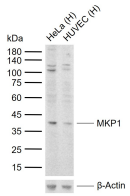
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Sheep, Cow, Dog, Horse)

Predicted MW.: 39 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Lane 1: Human HeLa cell lysates Lane 2: Human HUVEC cell lysates Primary: Anti-MKP1 (bs-1851R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kDa Observed band size: 39 kDa

SELECTED CITATIONS

- **[IF=6.244]** Meng-ke Fan. et al. Siglec-15 Promotes Tumor Progression in Osteosarcoma via DUSP1/MAPK Pathway. Front Oncol. 2021; 11: 710689 WB ;Human. 34336699
- **[IF=5.008]** Kato, Hiroyuki, et al. "Connexin 32 dysfunction promotes ethanol-related hepatocarcinogenesis via activation of Dusp1-Erk axis." Oncotarget 7.2 (2016): 2009. IF ;="Rat". 26655499
- **[IF=4.522]** Sha J et al. Dexmedetomidine improves acute stress‐induced liver injury in rats by regulating MKP‐1, inhibiting NF‐κB pathway and cell apoptosis. J Cell Physiol. 2019 Aug;234(8):14068-14078. IF ;Rat. 30618065
- **[IF=3.83]** Kouam et al. Induction of Mkp-1 and Nuclear Translocation of Nrf2 by Limonoids from Khaya grandifoliola C.DC Protect L-02 Hepatocytes against Acetaminophen-Induced Hepatotoxicity. (2017) Front.Pharmacol. 8:653 WB

;Human. 28974930
- **[IF=3.585]** Sha J et al. Dexmedetomidine attenuates lipopolysaccharide-induced liver oxidative stress and cell apoptosis in rats by increasing GSK-3β/MKP-1/Nrf2 pathway activity via the α2 adrenergic receptor. Toxicol Appl Pharmacol. 2019 Feb 1;364:144-152. WB ;Rat. 30597158