

## Product datasheet for **TA804231**

### **PRAK (MAPKAPK5) Mouse Monoclonal Antibody [Clone ID: OTI1D11]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI1D11
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	WB 1:2000
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2a
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 197-471 of human MAPKAPK (NP_003659) produced in E.coli.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	1 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	mitogen-activated protein kinase-activated protein kinase 5
<b>Database Link:</b>	<a href="#">NP_003659</a> <a href="#">Entrez Gene 17165 Mouse</a> <a href="#">Entrez Gene 498183 Rat</a> <a href="#">Entrez Gene 8550 Human</a> <a href="#">Q8IW41</a>
<b>Background:</b>	The protein encoded by this gene is a tumor suppressor and member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. The encoded protein is found in the nucleus but translocates to the cytoplasm upon phosphorylation and activation. This kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov



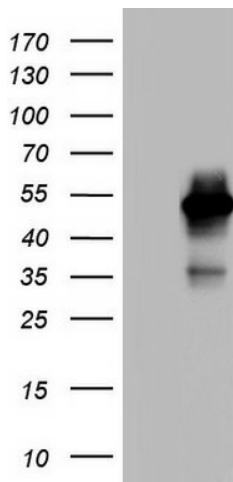
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**Synonyms:** MAPKAP-K5; MK-5; MK5; PRAK

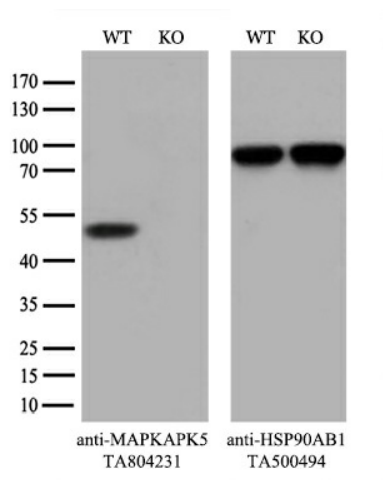
**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** MAPK signaling pathway

**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MAPKAPK5 ([RC216715], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAPKAPK5.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and MAPKAPK5-Knockout HEK293T cells (KO, Cat# [LC840636]) were separated by SDS-PAGE and immunoblotted with anti-MAPKAPK5 monoclonal antibody TA804231 (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.