

Product datasheet for **AP32810PU-N**

MAPKAP Kinase 2 (MAPKAPK2) Goat Polyclonal Antibody

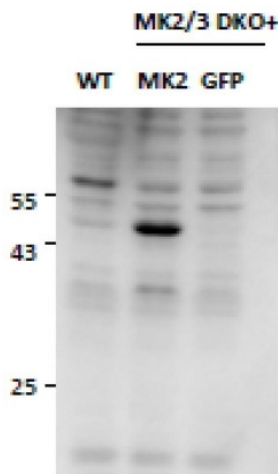
Product data:

| | |
|-----------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | ELISA, IHC, IP, WB |
| Recommended Dilution: | Peptide ELISA: 1/128000 (Detection Limit). Western blot: 0.5-2 µg/ml. Approx 60kDa band observed in Mouse Embryonic Fibroblasts (MEF) lysates, not present in the knockout MEFs and reappearing as a 45kDa band upon reintroduction of MK2 gene expression through viral transduction (calculated MW of 44.0kDa according to Mouse NP_032577.1). The observed molecular weights correspond to earlier findings in literature with different antibodies (Menon et al, Cell Motil Cytoskeleton. 2009 Dec;66(12):1041-7. PMID: 19743408). There is no cross-reactivity to MK5. <i>Data obtained from Dr. M. B. Menon, Inst. Biochemistry, Hannover Medical School, Germany.</i> Immunoprecipitation: MK2/MK3 double knockout MEFs retrovirally transduced with MK2 or empty vector were lysed from confluent plates and used for IP with 1.5 µg AP32810PU-N or AP32811PU-N. Western blots of the Immunoprecipitation were labelled with rabbit anti-MK2 (CST). An approx 45kDa of MK2 is only precipitated from lysates of those KO MEFs that have been rescued by the MK2 expression construct as described in PMID: 19743408. <i>Data obtained from Dr. M. B. Menon, Inst. Biochemistry, Hannover Medical School, Germany.</i> Immunohistochemistry on Paraffin Sections: 5 µg/ml in paraffin embedded Human Heart. |
| Reactivity: | Bovine, Canine, Human, Mouse, Rat |
| Host: | Goat |
| Clonality: | Polyclonal |
| Immunogen: | Peptide with sequence from the internal region (near C-Terminus) of the protein sequence according to NP_004750.1; NP_116584.2. |
| Specificity: | This antibody is expected to recognize both reported isoforms (NP_004750.1; NP_116584.2). |
| Formulation: | Tris saline, pH~7.3 State: Aff - Purified State: Liquid purified Ig fraction Stabilizer: 0.5% BSA Preservative: 0.02% Sodium Azide |
| Concentration: | lot specific |

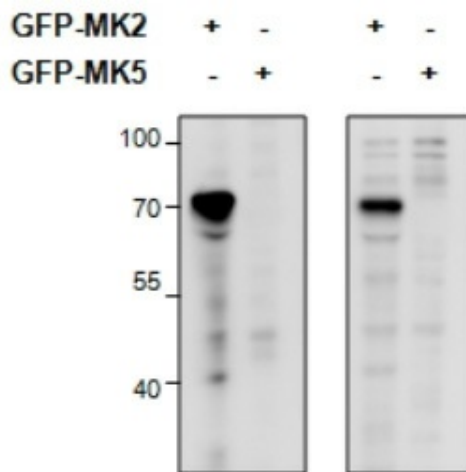


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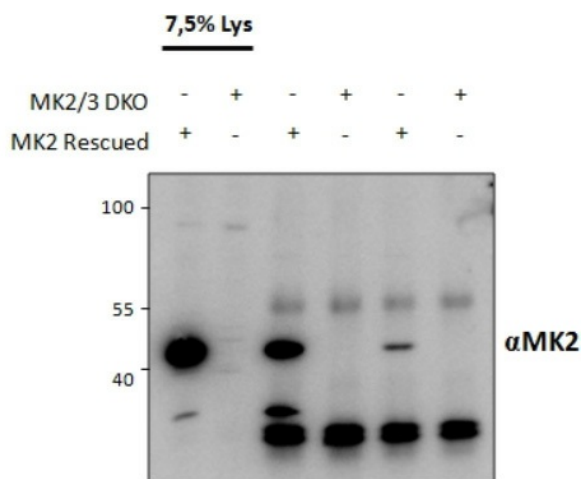
| | |
|-----------------------|---|
| Purification: | Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | mitogen-activated protein kinase-activated protein kinase 2 |
| Database Link: | Entrez Gene 9261 Human P49137 |
| Synonyms: | MAPK-activated protein kinase 2, MAPKAP kinase 2, MAPKAPK-2, MK2, MAPKAPK2 |

Product images:


(0.5 ug/ml) staining of MEF lysates (35ug protein in RIPA buffer), from double KO mice in second and third lanes and rescued by introduction of MK2 gene in second lane. Primary incubation was 2 hour. Detected by chemiluminescence.



HEK293 overexpressing Mouse MK2 fused to GFP or overexpressing MK5 fused to GFP and probed with (0.5 ug/ml) in the left panel and with -N (0.5 ug/ml) in the right panel.



and -N (1.5 ug) immunoprecipitations from lysates of MK2/MK3 double knockout MEFs, with (third and fifth lanes) and without (fourth and sixth lanes) rescued MK2 expression through retroviral transduction. The corresponding lysates (first and second lane resp.) were analyzed in parallel in this Western blot labelled with rabbit anti-MK2.