

## Product datasheet for **AP02747PU-S**

### **p38 (MAPK14) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 1:500~1:1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human P38MAPK around the phosphorylation site of tyrosine 182 (T-G-YP-V-A).
Specificity:	P38MAPK antibody detects endogenous levels of total P38MAPK protein.
Formulation:	PBS(without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	mitogen-activated protein kinase 14
Database Link:	<a href="#">Entrez Gene 1432 Human Q16539</a>

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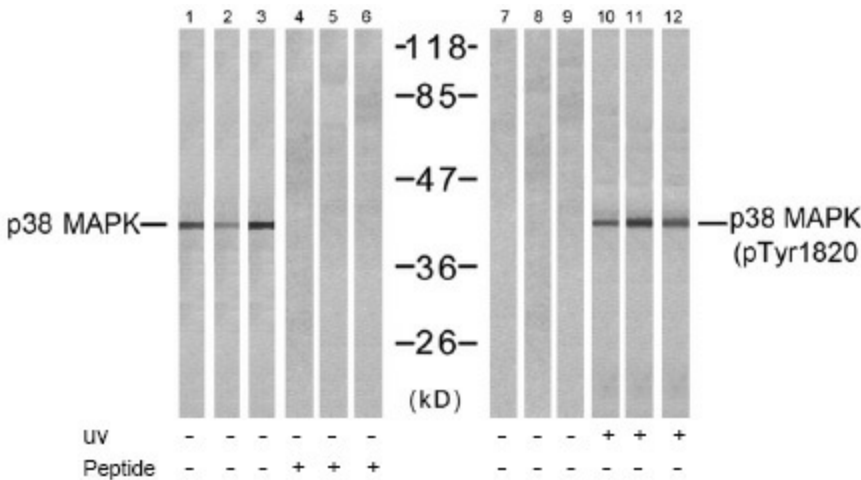
**Background:**

p38 is a 38 kDa Stress Activated Protein Kinase / Map Kinase (SAPK / MAPK) that is fully activated by dual phosphorylation on threonine 180 and tyrosine 182, within the activation loop. p38 MAPK plays a critical role in the initiation of G2 delay after ultraviolet radiation; gene knock out studies have also revealed a critical role for p38 in cardiac remodeling. Downstream targets of p38 include the transcription factors ELK1 and ATF2 and the kinases MAPKAPK2 and MAPKAPK5. p38 MAPK plays a role in the production of IL6 and is thought to stabilize erythropoietin production during hypoxic stress. It is activated by environmental stress, many proinflammatory cytokines and lipopolysaccharide. Dual phosphorylation by MAP2K3 and MAP2K6 is required for activation of p38 MAPK. It interacts with MAX, Cdc25B, Cdc25C and binds to the kinase interaction domain in the protein tyrosine phosphatase PTPRR; this interaction retains p38 MAPK in the cytoplasm.

**Synonyms:**

Mitogen-activated protein kinase 14, p38 alpha, MXI2, SAPK2A, CSBP, CSBP1, CSBP2, CSPB1

**Product images:**



Western blot analysis of extracts from NIH-3T3 (Line 1, 4, 7 and 10) and COS7 (Line 2, 5, 8 and 11) and K562 (Line 3, 6, 9 and 12) cells, untreated or treated with UV (20min), using P38 MAPK antibody (Line 1, 2, 3, 4, 5 and 6) and P38 MAPK (pTyr182) antibody (Line 7, 8, 9, 10, 11 and 12).