

## Product datasheet for **AP02654PU-N**

### ASK1 (MAP3K5) Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | IF, IHC, WB   |
| Recommended Dilution: | Western blot 1/500-1/1000.<br>Immunofluorescence: 1/100-1/200.<br>Immunohistochemistry on Paraffin-Embedded Sections: 1/50-1/100.   |
| Reactivity:           | Human   |
| Host:                 | Rabbit  |
| Clonality:            | Polyclonal  |
| Immunogen:            | The antiserum was produced against synthesized non-phosphopeptide derived from human ASK1 around the phosphorylation site of Serine 83 (G-S- <i>Sp</i> -V-G).                   |
| Specificity:          | This antibody detects endogenous levels of ASK1 protein around Serine 83.   |
| Formulation:          | PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction. |
| Concentration:        | lot specific  |
| Purification:         | Affinity Chromatography using epitope-specific immunogen.   |
| Conjugation:          | Unconjugated  |
| Storage:              | Store the antibody (in aliquots) at -20°C.<br>Avoid repeated freezing and thawing.  |
| Stability:            | Shelf life: One year from despatch.   |
| Gene Name:            | mitogen-activated protein kinase kinase kinase 5  |
| Database Link:        | <a href="#">Entrez Gene 4217 Human Q99683</a>   |



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**Background:**

Mitogen activated protein (MAP) kinase cascades are activated in response to various extracellular stimuli including cytokines, growth factors and environmental stresses. A novel MAP kinase kinase kinase (MAPKKK) was recently identified and designated ASK1 (for apoptosis signal-regulating kinase 1). ASK1 activates two different subgroups of MAPKK, MKK4 and MKK6, which in turn activate c-Jun N terminal kinase (JNK) and p38 MAP kinase, respectively. ASK1 is activated by TNFR and Fas through the interaction with members of the TRAF family and Fas associated protein Daxx. Overexpression of ASK1 induces apoptotic cell death, and a catalytically inactive form of ASK1 inhibits TNF alpha-induced apoptosis. ASK1 is expressed in variety of human and mouse tissues.

**Synonyms:**

MAPK/ERK kinase kinase 5, MAPKKK5, MAP3K5

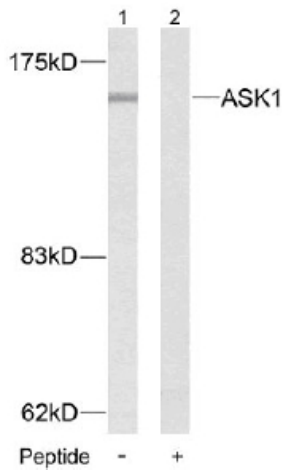
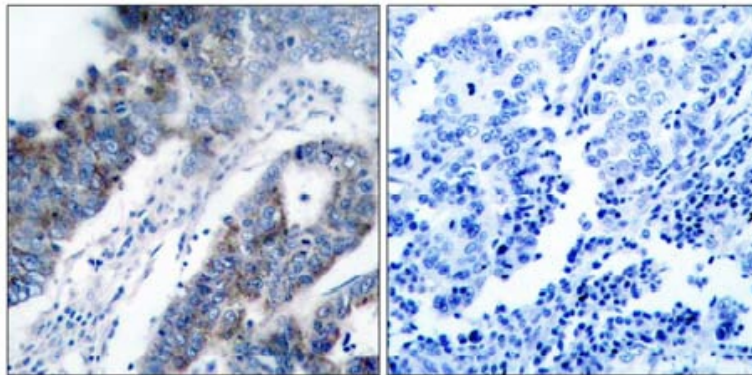
**Product images:**


Figure 2. Western blot analysis of extract from MDA-MB- 435 cells, using ASK1 antibody.



Peptide                      -                      +

Figure 1. Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue, using ASK1 antibody.

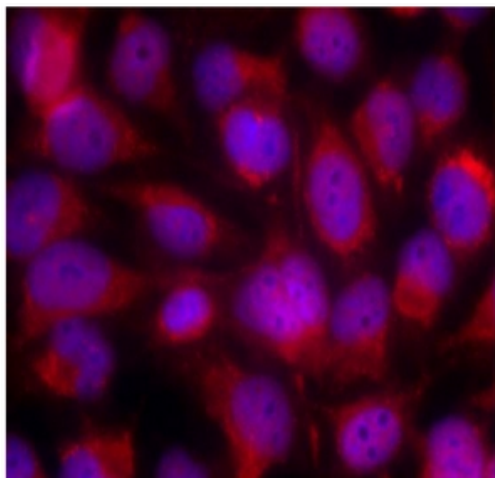


Figure 3. Immunofluorescence staining of methanol-fixed HeLa cells using ASK1 antibody (Red).