

# TAK1 (phospho-Ser412) rabbit pAb

Cat No.:ES12822

For research use only

## Overview

|                          |                                                                                                                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name             | TAK1 (phospho-Ser412) rabbit pAb                                                                                                                                                                                                             |
| Host species             | Rabbit                                                                                                                                                                                                                                       |
| Applications             | WB                                                                                                                                                                                                                                           |
| Species Cross-Reactivity | Human;Mouse;Rat                                                                                                                                                                                                                              |
| Recommended dilutions    | WB 1:1000-2000                                                                                                                                                                                                                               |
| Immunogen                | Synthesized phospho peptide around human TAK1 (Ser412)                                                                                                                                                                                       |
| Specificity              | This antibody detects endogenous levels of Human Mouse Rat TAK1 (phospho-Ser412)                                                                                                                                                             |
| Formulation              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                      |
| Storage                  | Store at -20°C . Avoid repeated freeze-thaw cycles.                                                                                                                                                                                          |
| Protein Name             | TAK1 (Ser412)                                                                                                                                                                                                                                |
| Gene Name                | MAP3K7 TAK1                                                                                                                                                                                                                                  |
| Cellular localization    | Cytoplasm . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Although the majority of MAP3K7/TAK1 is found in the cytosol, when complexed with TAB1/MAP3K7IP1 and TAB2/MAP3K7IP2, it is also localized at the cell membrane. |
| Purification             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                        |
| Clonality                | Polyclonal                                                                                                                                                                                                                                   |
| Concentration            | 1 mg/ml                                                                                                                                                                                                                                      |
| Observed band            | 70kD                                                                                                                                                                                                                                         |
| Human Gene ID            | 6885                                                                                                                                                                                                                                         |
| Human Swiss-Prot Number  | O43318                                                                                                                                                                                                                                       |
| Alternative Names        | Mitogen-activated protein kinase kinase kinase 7 (EC 2.7.11.25) (Transforming growth factor-beta-activated kinase 1) (TGF-beta-activated kinase 1)                                                                                           |
| Background               | The protein encoded by this gene is a member of                                                                                                                                                                                              |





the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008],

