**p44/42 MAPK (Erk1/2) (3A7) Mouse mAb**

For Research Use Only. Not For Use In Diagnostic Procedures.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Species Cross-Reactivity*</th>
<th>Molecular Wt.</th>
<th>Isotype</th>
<th>Source/Purification:</th>
</tr>
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<tbody>
<tr>
<td>W Endogenous</td>
<td>H, M, R, Hm, Mk, Mi, Z, B, Pg</td>
<td>42, 44 kDa</td>
<td>Mouse IgG1**</td>
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**Background:** Mitogen-activated protein kinases (MAPKs) are a widely conserved family of serine/threonine protein kinases involved in many cellular programs such as cell proliferation, differentiation, motility, and death. The p44/42 MAPK (ERK1/2) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines. JNK/SAPK or p38 MAP kinase. It does not cross-react with either p44/42 MAPK (Erk1/2) (3A7) Mouse mAb.

**Specificity/Sensitivity:** p44/42 MAPK (Erk1/2) (3A7) Mouse mAb detects endogenous levels of total p44/42 MAP kinase (Erk1/2). It does not cross-react with either JNK/SAPK or p38 MAP kinase.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide (KLH-coupled) derived from the sequence of p44/42 MAP kinase.

**Western blot analysis of extracts from various cells, using p44/42 MAPK (Erk1/2) (3A7) Mouse mAb.**

**Recommended Antibody Dilutions:** For application specific protocols please see the web page for this product at www.cellsignal.com.

**Background References:**