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**Product Name:** Phospho-ERK1/2 (Tyr222/Tyr205) (1H4) Mouse Monoclonal Antibody  
**Catalog #:** AMM00747

For research use only.

## Summary

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Purification

## Application

<b>Dilution Ratio</b>	IHC 1:50-1:100
<b>Molecular Weight</b>	-

## Antigen Information

<b>Gene Name</b>	MAPK1/MAPK3
<b>Alternative Names</b>	MAPK1/MAPK3
<b>Gene ID</b>	5595/5594
<b>SwissProt ID</b>	P27361/P28482
<b>Immunogen</b>	A synthetic Phosphorylated peptide corresponding to residues target protein

## Background

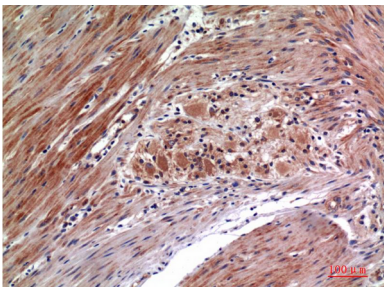
Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling

cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context, the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements.

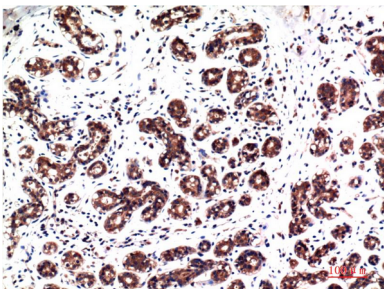
## Research Area

Cell Biology

## Image Data



Immunohistochemistry analysis of paraffin-embedded Human Colon Carcinoma Tissue using Phospho-ERK1/2 (Tyr222/Tyr205) (1H4) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemical analysis of paraffin-embedded Human tonsils using Phospho-ERK1/2 (Tyr222/Tyr205) (1H4) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.