

# AB-PK621

## ERK1-pT202+pY204 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase ERK1 (MAPK3)



**KINEXUS**

Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	Extracellular regulated protein-serine kinase 1 (p44 MAP kinase)
<b>Alias:</b>	ERK-1; ERT2; Insulin-stimulated MAP2 kinase; Kinase ERK1; MAP kinase 1; MAPK 1; MAPK1; MAPK3; PRKM3; p44ERK1; p44MAPK; MGC20180; ENSG00000102882
<b>UniProt ID:</b>	P27361
<b>Sequence Predicted Mass (KDa):</b>	43.136 (379 AA; P27361); 40.088 (357 AA; P27361-3); 38.275 (335 AA; P27361-2)
<b>Observed SDS-PAGE Mass (KDa):</b>	42-47

### Immunogen

<b>Antibody Immunogen Source:</b>	Human ERK1 (MAPK3) sequence peptide Cat. No.: PE-04ACU90
<b>Antibody Immunogen Sequence:</b>	L(pT)E(pY)VAT(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues L201 to T207; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Thr-202+Tyr-204

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	141003
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

# AB-PK621

## ERK1-pT202+pY204 Antibody



# KINEXUS

Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Applications

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Strong immunoreactivity with immunogen peptide on dot blots. Strong immunoreactivity with recombinant human ERK1 on protein dot blots.
<b>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Strong immunoreactivity of a target-sized protein by Western blotting in HeLa cells treated with phenylarsine oxide and vanadate.
<b>Overall Antibody Specificity:</b>	Very high selectivity
<b>Antibody Cross Reactivities:</b>	Weak immunoreactivity on protein dot blots with recombinant human ERK2 and ERK5. No cross-reactivity in A431, A549, HepG2 and Jurkat cells, except for a strong ~170 KDa protein in Jurkat cells, which was also more weakly detected in A431 cells.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)