

ABfinity™ p44/42 MAPK [ERK1/2] [pT202/pY204] Recombinant Rabbit Oligoclonal Antibody

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Catalog Number: 710318

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Clonality: Oligoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human MAPK [pT202/pY204]
Predicted Reactivity: Human

Product Description

Mitogen activated protein kinase (MAPK) belongs to a family of serine/threonine kinases that are activated upon exposure of cells to a variety of stimuli including mitogens, hormones, growth factors, cytokines and bioactive peptides. There are two closely related isoforms of MAPK, with apparent molecular weights of 44 kDa and 42 kDa. They are abundantly expressed in neurons of the mature central nervous system. Activated MAPK plays a role in cell division and differentiation, and regulation of the cytoskeleton.

Product Specifications

Immunogen: Phosopeptide corresponding to amino acids 197–209 of human MAPK [pT202/pY204]
Alternate Names: p44 MAPK, p42 MAPK, ERK1, ERK2, PRKM3
Apparent MW: 42 kDa
Gene ID: 5595
Protein Accession No.: P27361
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Monkey, Rabbit
Clone/PAD: 6HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Mouse	NIH3T3 cells	1–2 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store the antibody at 2°C to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

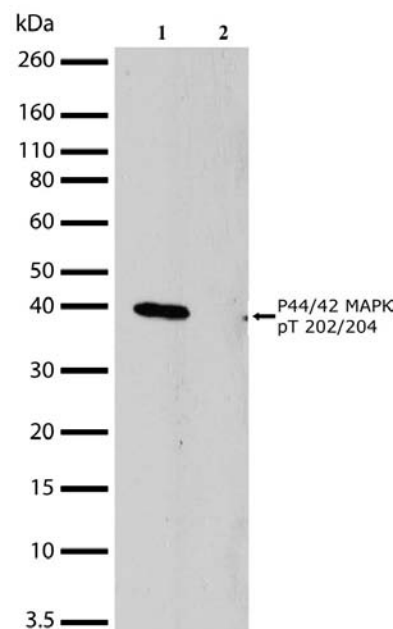


Figure 1 Western blot analysis of ABfinity™ p44/42 MAPK [ERK1/2] [pT202/pY204] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710318).

Western blot analysis was performed on whole cell extracts from NIH3T3 cells treated with PDGF. Endogenous levels of phosphorylated p44/42 MAPK [ERK1/2] [pT202/pY204] was detected at ~42 kDa using ABfinity™ p44/42 MAPK [ERK1/2] [pT202/pY204] Recombinant Rabbit Oligoclonal Antibody at a concentration of 1 µg/mL (**lane 1**). To confirm specificity, competition was performed by preincubation with phosopeptide to inhibit antibody binding (**lane 2**). The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

For research use only. Not for use in diagnostic procedures.

Product Documentation

To obtain a Certificate of Analysis or SDS, visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106

Limited Product Warranty

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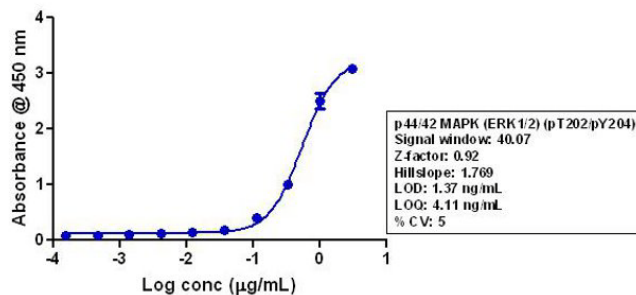


Figure 2 Indirect ELISA of ABfinity™ p44/42 MAPK [ERK1/2] [pT202/pY204] Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710318).

Indirect ELISA was performed using various dilutions of ABfinity™ p44/42 MAPK [ERK1/2] [pT202/pY204] Recombinant Rabbit Oligoclonal Antibody to detect p44/42 MAPK [ERK1/2] [pT202/pY204] peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), and LOD and LOQ for the antibody was determined.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 327: Recombinant Antibody Technology

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