abcam

Product datasheet

Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [EP197Y] - BSA and Azide free ab214171

Recombinant RabMAb

7 References 5 Images

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Product name Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [EP197Y] - BSA and Azide free

Description Rabbit monoclonal [EP197Y] to Erk1 (pT202/pY204) + Erk2 (pT185/pY187) - BSA and Azide free

Host species Rabbit

Specificity This antibody detects Erk1 phosphorylated at Threonine 202 and Tyrosine 204 and Erk2

phosphorylated at Threonine 185 and Tyrosine 187.

Tested applications Suitable for: WB, IP, Dot blot, ELISA

Unsuitable for: Flow Cyt,ICC/IF or IHC-P

Species reactivity Reacts with: Mouse, Rat, Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: A431 (treated with EGF), SH-SY5Y (treated with NGF), PC-12 (treated with NGF), HeLa and

NIH/3T3 whole cell lysates. IP: A431 (treated with EGF) and PC-12 (treated with NGF) whole cell

lysates.

General notes ab214171 is the carrier-free version of <u>ab76299</u>.

Our <u>carrier-free</u> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for

increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply

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- Animal-free production

For more information see here.

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**[®] **patents**.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.20

Constituent: PBS

Carrier free Yes

Purity Protein A purified

ClonalityMonoclonalClone numberEP197Y

Isotype IgG

Applications

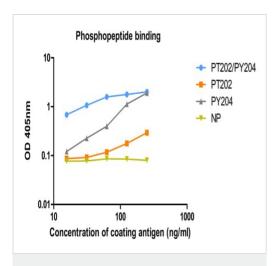
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab214171 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

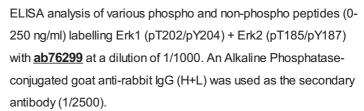
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 43, 42 kDa (predicted molecular weight: 43, 41 kDa).
IP		Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

Images

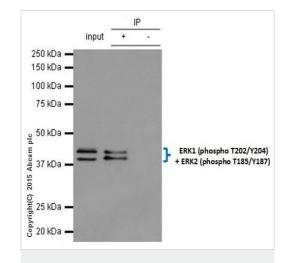


ELISA - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [EP197Y] - BSA and Azide free (ab214171)



<u>ab76299</u> has stronger affinity for the double phospho peptide Y204/Y187 than to single phospho peptides T202 or Y204.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab76299).



Immunoprecipitation - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [EP197Y] - BSA and Azide free (ab214171)

<u>ab76299</u> at 1/80 immunoprecipitating Erk1 (pT202/pY204) + Erk2 (pT185/pY187) in PC-12 whole cell lysate.

Lane 1 (input): PC-12 whole cell lysate - treated with 100ng/ml NGF for 10 min (10 μ g).

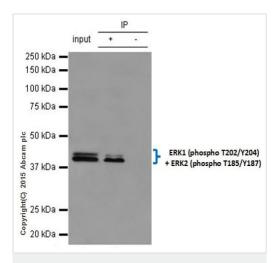
Lane 2 (+): <u>ab76299</u> + PC-12 whole cell lysate - treated with 100ng/ml NGF for 10 min.

Lane 3 (-): Rabbit monoclonal IgG (<u>ab172730</u>) instead of <u>ab76299</u> in PC-12 whole cell lysate - treated with 100ng/ml NGF for 10 min.

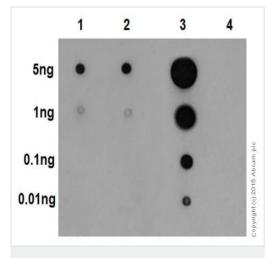
For western blotting, <u>ab76299</u> was used at a dilution of 1/1000 and a HRP-conjugated anti-rabbit lgG, specific to the non-reduced form of lgG, was used as the secondary antibody (1/1500).

Blocking and dilution buffer: 5% NFDM/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab76299).



Immunoprecipitation - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [EP197Y] - BSA and Azide free (ab214171)



Dot Blot - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [EP197Y] - BSA and Azide free (ab214171)

<u>ab76299</u> at 1/80 immunoprecipitating Erk1 (pT202/pY204) + Erk2 (pT185/pY187) in A431 whole cell lysate.

Lane 1 (input): A431 whole cell lysate - treated with 100ng/ml EGF for 10 min (10 μ g).

Lane 2 (+): <u>ab76299</u> + A431 whole cell lysate - treated with 100ng/ml EGF for 10 min.

Lane 3 (-): Rabbit monoclonal IgG (<u>ab172730</u>) instead of <u>ab76299</u> in A431 whole cell lysate - treated with 100ng/ml EGF for 10 min.

For western blotting, <u>ab76299</u> was used at a dilution of 1/1000 and a HRP-conjugated anti-rabbit lgG, specific to the non-reduced form of lgG, was used as the secondary antibody (1/1500).

Blocking and dilution buffer: 5% NFDM/TBST.

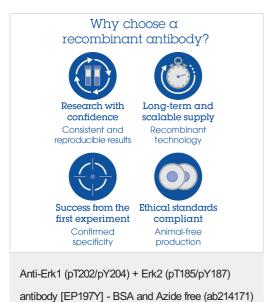
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab76299).

Dot blot analysis of single phospho peptide pT202 (Lane 1), single phospho peptide pY204 (Lane 2), double phospho peptide pT202/pY204 (Lane 3) and non-phospho peptide (Lane 4) labelling Erk1 (pT202/pY204) + Erk2 (p185/pY187) with ab76299 at a dilution of 1/1000. A peroxidase-conjugated goat anti-rabbit lgG (H+L) was used as the secondary antibody at a dilution of 1/1000.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (<u>ab76299</u>).



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