


Product datasheet

Anti-ERK2 antibody ab15282

1 References 1 Image

Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-ERK2 antibody   |
| <b>Description</b>         | Rabbit polyclonal to ERK2  |
| <b>Specificity</b>         | This product is specific for ERK2.   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, IP, IHC-P   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human<br><b>Predicted to work with:</b> Mouse, Rat  |
| <b>Immunogen</b>           | Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) (C terminal)(Mouse)   |
| <b>Positive control</b>    | A431 cells, Breast carcinoma   |

Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| <b>Storage buffer</b>       | Preservative: 0.1% Sodium Azide<br>Constituents: 1% BSA, 10mM PBS, pH 7.4             |
| <b>Purity</b>               | Immunogen affinity purified   |
| <b>Clonality</b>            | Polyclonal  |
| <b>Isotype</b>              | IgG   |

Applications

Our [Abpromise guarantee](#) covers the use of **ab15282** 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          |           |       |
| IP          |           |       |

| Application | Abreviews | Notes |
|-------------|-----------|-------|
|-------------|-----------|-------|

IHC-P

**Application notes**

IHC-P: 1/200. Perform enzymatic antigen retrieval before commencing with IHC staining protocol, by boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.  
 IP: Use at an assay dependent dilution.  
 WB: Use at an assay dependent dilution. Predicted molecular weight: 43 kDa.

Not tested in other applications.  
 Optimal dilutions/concentrations should be determined by the end user.

**Target**

**Function**

Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4) and ARHGEF2.  
 Acts as a transcriptional repressor. Binds to a [GC]AAA[GC] consensus sequence. Repress the expression of interferon gamma-induced genes. Seems to bind to the promoter of CCL5, DMP1, IFIH1, IFITM1, IRF7, IRF9, LAMP3, OAS1, OAS2, OAS3 and STAT1. Transcriptional activity is independent of kinase activity.

**Sequence similarities**

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.  
 Contains 1 protein kinase domain.

**Domain**

The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.

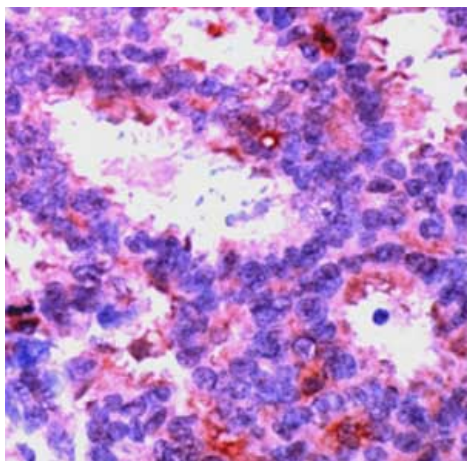
**Post-translational modifications**

Dually phosphorylated on Thr-185 and Tyr-187, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-187.

**Cellular localization**

Nucleus.

**Images**



ab15282, at 1/200 dilution, staining ERK2 in breast carcinoma by IHC-P.

Immunohistochemistry (Paraffin-embedded sections)  
- ERK2 antibody (ab15282)

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