

## DESCRIPTION

|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human/Mouse/Rat   |
| <b>Specificity</b>        | Detects human, mouse and rat ERK1/ERK2.   |
| <b>Source</b>             | Polyclonal Rabbit IgG   |
| <b>Purification</b>       | Antigen Affinity-purified   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human ERK1/ERK2 XM_055766 and NM_138957, respectively   |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

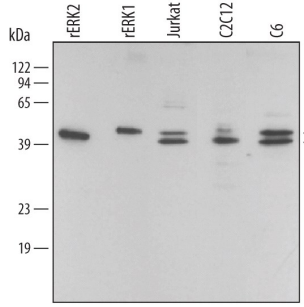
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

|                       | Recommended Concentration | Sample    |
|-----------------------|---------------------------|-----------|
| <b>Western Blot</b>   | 0.2 µg/mL                 | See Below |
| <b>Simple Western</b> | 10 µg/mL                  | See Below |

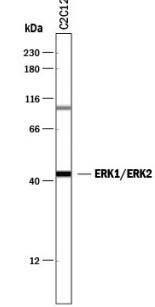
## DATA

**Western Blot**




**Detection of Human/Mouse/Rat ERK1/ERK2 by Western Blot.** Western blot shows lysates of Jurkat human acute T cell leukemia cell line, C2C12 mouse myoblast cell line myoblast cell line, and C6 rat glioma cell line. PVDF membrane was probed with 0.2 µg/mL Rabbit Anti-Human/Mouse/Rat ERK1/ERK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1576) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). For additional reference, Recombinant Human Active ERK1 (Catalog # 1879-KS) and Recombinant Human Active ERK2 (Catalog # 1230-KS) (2 ng/lane) were included. A specific band for ERK1/ERK2 was detected at approximately 44 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Simple Western**



**Detection of Mouse ERK1/ERK2 by Simple Western™.** Simple Western lane view shows lysates of C2C12 mouse myoblast cell line, loaded at 0.2 mg/mL. A specific band was detected for ERK1/ERK2 at approximately 44 kDa (as indicated) using 10 µg/mL of Rabbit Anti-Human/Mouse/Rat ERK1/ERK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1576). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## PREPARATION AND STORAGE

|                                |   |
|--------------------------------|---|
| <b>Reconstitution</b>          | Reconstitute at 0.2 mg/mL in sterile PBS.   |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C  |
| <b>Stability &amp; Storage</b> | <p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |