

## Purified anti-ERK2

**Catalog # / Size:** 624201 / 50 µl (5 Western Blots)  
**Clone:** Poly6242  
**Isotype:** Rabbit IgG  
**Immunogen:** Peptide mapping to the carboxy terminus of rat ERK2  
**Reactivity:** Rat, Human, Mouse  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide, 50% glycerol, and 0.1% gelatin.  
**Storage:** Upon receipt, store frozen at -20° C.

## Applications:

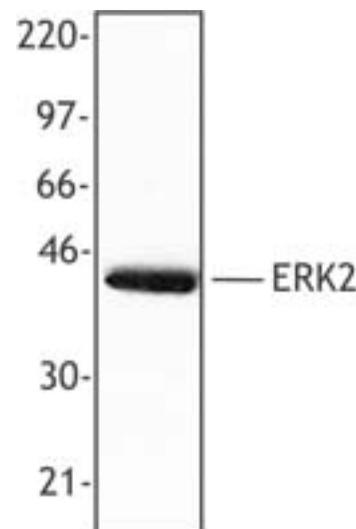
**Applications:** WB - *Quality tested*  
 IHC, IP- *Validated*

**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml of antibody dilution buffer for each mini-gel. For IHC, use a 1:50 dilution of antibody for staining. Antigen retrieval for IHC of formalin-fixed paraffin-embedded tissue using 0.01 M sodium citrate buffer is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

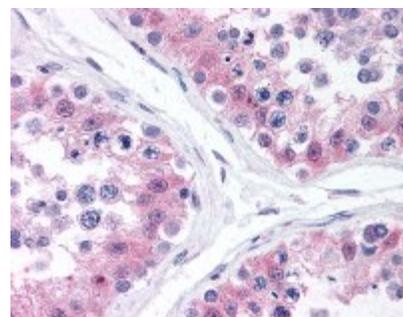
**Description:** ERK2 is a 42 kD dual specificity kinase also known as mitogen activated protein kinase 1, extracellular signal regulated kinase 2, MAPK1, and p41mapk. The MAPK family includes several subgroups encompassing the ERK, JNK, and p38 kinases. ERK is phosphorylated in response to various extracellular signals inducing homodimerization and nuclear translocation where it phosphorylates target proteins regulating cell growth and survival. ERK2 interacts with a number of proteins including STAT5A, estrogen receptor alpha, ELK1, MEK1, protein kinase c epsilon, RAF1, ribosomal S6 kinase, VAV1, STAT5b, Shc and many others. The Poly6242 antibody recognizes human, mouse, and rat ERK2 and has been shown to be useful for Western blotting, immunoprecipitation, and immunohistochemistry.

**Antigen References:** 1. Khokhlatchev AV, *et al.* 1998. *Cell* 93:605.  
 2. Boulton TG, *et al.* 1991. *Cell* 65:663.

Related Products:	Product	Clone	Application
	HRP Donkey anti-rabbit IgG (minimal x-reactivity)	Poly4064	ELISA, IHC, WB



*HeLa cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit anti-ERK2 polyclonal antibody. Proteins were visualized using a donkey anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence system.*



*Formalin-fixed paraffin-embedded human testis tissue was stained with Poly6242 and developed with an alkaline phosphatase chromogen substrate (red color). Tissue was counterstained with H&E (blue/pink). Magnification, 40X.*



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