

# ERK5 Polyclonal Antibody

Catalog NumberPA1-27890

Product data sheet

Details		Tested Applications	Dilution *
Size	50 µg	Western Blot (WB)	1:2,000
Host/Isotope	Chicken / IgY	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Class	Polyclonal		
Type	Antibody		
Immunogen	Synthetic peptide corresponding to human Mitogen-activated protein kinase 7.		
Conjugate	Unconjugated		
Form	Liquid		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

## Product specific information

PA1-27890 detects MAPK7 from human samples. PA1-27890 may be successfully used in Western blot applications. By Western blot, this antibody has only been tested on fusion protein. The immunogen is a synthetic peptide corresponding to human Mitogen-activated protein kinase 7.

## Background/Target Information

MAPK7 (ERK5) serine/threonine kinase is a member of the MAP kinase family and is involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. MAPK7 is activated by mitogen-activated protein kinase 5 (MAP2K5/MEK5) and is involved in downstream signaling processes of various receptors. In response to extracellular signals, MAPK7 translocates to the cell nucleus where it regulates gene expression by phosphorylating and activating different transcription factors. Gene deletion of MAPK7 in mice results in defective blood vessel and cardiac development leading to embryonic lethality. MAPK7 has been shown to be critical for endothelial function and maintenance of blood vessel integrity. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported. ERK5 is expressed in many adult tissues, abundantly in heart, placenta, lung, kidney and skeletal muscle, but is not detectable in liver.

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