

ERK5 Ab

[References\(1\)](#) [Images\(2\)](#)

Cat.#: DF6835	Concn.: ~1mg/ml	Mol.Wt.: 89kDa
Size:	Source: Rabbit	Clonality: Polyclonal
Application:	WB 1:500-1:2000, IHC 1:50-1:200 *The optimal dilutions should be determined by the end user.	
Reactivity:	Human, Mouse, Rat	
Storage:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).	
Immunogen:	A synthesized peptide derived from human ERK5, corresponding to a region within the internal amino acids.	
Uniprot:	Q13164	
Description:	ERK5 (Mitogen-activated protein kinase 7, Big mitogen-activated protein kinase 1) is a member of the MAPK superfamily implicated in the regulation numerous cellular processes including proliferation, differentiation, and survival (1,5-7). Like other MAPK family members, ERK5 contains a canonical activation loop TEY motif (Thr218/Tyr220) which is specifically phosphorylated by MAP2K5 (MEK5) in a growth factor-dependent, Ras-independent mechanism (2-4). For example, EGF stimulation promotes ERK5 phosphorylation which induces its translocation to the nucleus where it phosphorylates MEF2C and other transcriptional targets (2,3). ERK5 is also activated in response to granulocyte colony-stimulating factor (G-CSF) in hematopoietic progenitor cells where it promotes survival and proliferation.	

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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