

## ERK5 Conjugated Antibody

Catalog No: #C49183



Package Size: #C49183-AF350 100ul #C49183-AF405 100ul #C49183-AF488 100ul  
 #C49183-AF555 100ul #C49183-AF594 100ul #C49183-AF647 100ul  
 #C49183-AF680 100ul #C49183-AF750 100ul #C49183-Biotin 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
 Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	ERK5 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Big MAP kinase 1 antibody BMK 1 antibody BMK 1 kinase antibody BMK-1 antibody BMK1 antibody BMK1 Kinase antibody EC 2.7.11.24 antibody ERK 4 antibody ERK 5 antibody ERK-5 antibody ERK4 antibody ERK5 antibody Extracellular signal regulated kinase 5 antibody Extracellular signal-regulated kinase 5 antibody MAP kinase 7 antibody MAPK 7 antibody MAPK7 antibody Mitogen activated protein kinase 7 antibody Mitogen-activated protein kinase 7 antibody MK07_HUMAN antibody OTTHUMP00000065906 antibody OTTHUMP00000065907 antibody PRKM 7 antibody PRKM7 antibody PROTEIN KINASE, MITOGEN-ACTIVATED, 7 antibody
Accession No.	Swiss-Prot#:Q13164
Uniprot	Q13164
GeneID	5598;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	115 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

---

## Background

---

The activation of signal transduction pathways by growth factors, hormones and neurotransmitters is mediated through two closely related MAP kinases, p44 and p42, designated extracellular-signal related kinase 1 (ERK 1) and ERK 2, respectively. ERK proteins are regulated by dual phosphorylation at specific tyrosine and threonine sites mapping within a characteristic Thr-Glu-Tyr motif. Phosphorylation at both the Thr and Tyr residues is required for full enzymatic activation. In response to activation, MAP kinases phosphorylate downstream components on serine and threonine. Upstream MAP kinase regulators include MAP kinase kinase (MEK), MEK kinase and Raf-1. The ERK family has three additional members: ERK 3, ERK 5 and ERK 6.

---

Note: This product is for in vitro research use only