



# DUSP5 Polyclonal Antibody

Catalog Number PA5-44870

Product Data Sheet

Details		Species Reactivity	
<b>Size</b>	100 µl	<b>Tested species reactivity</b>	Bovine, Canine, Equine, Guinea Pig, Human, Mouse, Porcine, Rabbit, Rat
<b>Host / Isotype</b>	Rabbit / IgG	<b>Tested Applications</b>	<b>Dilution *</b>
<b>Class</b>	Polyclonal	<b>Western Blot (WB)</b>	1:500
<b>Type</b>	Antibody	* 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.	
<b>Immunogen</b>	Synthetic peptide directed towards the middle region of human DUSP5		
<b>Conjugate</b>	Unconjugated		
<b>Form</b>	Liquid		
<b>Concentration</b>	0.5mg/ml		
<b>Purification</b>	Affinity Chromatography		
<b>Storage Buffer</b>	PBS with 2% sucrose		
<b>Contains</b>	0.09% sodium azide		
<b>Storage Conditions</b>	-20° C, Avoid Freeze/Thaw Cycles		

## Product Specific Information

PA5-44870 detects DUSP5 in WB application.

Peptide sequence: AGSSLIGHLQ TLSPDMQGAY CTFPASVLAP VPTHSTVSEL SRSPVATATS

Sequence homology: Cow: 85%; Dog: 92%; Guinea Pig: 79%; Horse: 100%; Human: 100%; Mouse: 86%; Pig: 100%; Rabbit: 86%; Rat: 79%

## Background/Target Information

The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein kinase superfamily, which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK1, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus.

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