

For Research Use Only

# ERC1 Polyclonal antibody

Catalog Number: 22211-1-AP

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 22211-1-AP	<b>GenBank Accession Number:</b> BC132782	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23085	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8IUD2	
<b>Isotype:</b> IgG	<b>Full Name:</b> ELKS/RAB6-interacting/CAST family member 1	
<b>Immunogen Catalog Number:</b> AG17536	<b>Calculated MW:</b> 1116 aa, 128 kDa	
	<b>Observed MW:</b> 124-135 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HeLa cells, COLO 320 cells, human testis tissue, Jurkat cells IHC : mouse kidney tissue, IF/ICC : HUVEC cells,
<b>Cited Applications:</b> WB, IF, CoIP	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, rat	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ERC is an acronym based on previous separate namings of members of this protein family, ELKS, Rab6IP2 and CAST (PMID: 12391317). They are known to bind RIMs, the active zone proteins that regulate neurotransmitter release. ERC1 (ELKS) is an essential regulatory subunit of the IKK complex and likely functions by recruiting IκBα to the complex (PMID: 15218148). Multiple isoforms of ERC1 mRNA are generated by alternative splicing (PMID: 12203787). There are two known splice variants of ERC1 protein that differ at their C termini, ERC1a and ERC1b. ERC1a is ubiquitously expressed, whereas ERC1b is brain-specific (PMID: 12391317; 12923177).

## Notable Publications

Author	Pubmed ID	Journal	Application
Qingyang Liu	29044157	Sci Rep	WB
Lou Fourriere	31142554	J Cell Biol	IF
Ivar Noordstra	35006275	J Cell Sci	WB, CoIP

## Storage

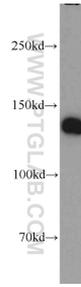
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

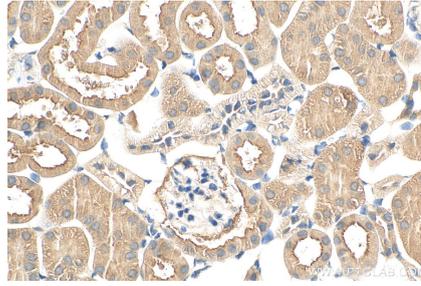
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 22211-1-AP (ERC1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 22211-1-AP (ERC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using ERC1 antibody (22211-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).