

For Research Use Only

ITCH Polyclonal antibody

Catalog Number: 20920-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number:

20920-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15120

GenBank Accession Number:

BC011571

GeneID (NCBI):

83737

UNIPROT ID:

Q96J02

Full Name:

itchy E3 ubiquitin protein ligase homolog (mouse)

Calculated MW:

903 aa, 103 kDa

Observed MW:

103 kDa, 70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IP, CoIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

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

Positive Controls:

WB : HEK-293 cells, U-251 cells, NIH/3T3 cells, K-562 cells, HeLa cells, Raji cells

IP : HEK-293 cells, HeLa cells

IHC : human breast cancer tissue,

Background Information

ITCH is an essential component of a ubiquitin-editing protein complex, comprising also TNFAIP3, TAX1BP1 and RNF11, that ensures the transient nature of inflammatory signaling pathways. It is involved in the regulation of apoptosis and reactive oxygen species levels through the ubiquitination and proteasomal degradation of TXNIP. ITCH can be cleaved by caspase-3, -6, and -7 on residue Asp240 and form a 65 kDa cleaved form (PMID: 19541840).

Notable Publications

Author	Pubmed ID	Journal	Application
Qian Yun Ge	34841685	Clin Transl Med	WB,IP
Xiaodong Zhang	36258021	Oncogene	WB
Yuhong Zhang	34628513	J Mol Med (Berl)	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

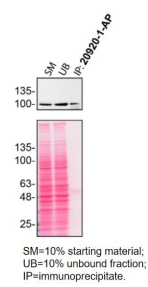
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

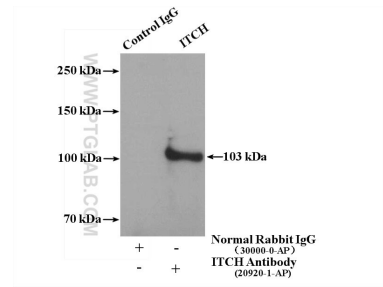
E: proteintech@ptglab.com
W: ptglab.com

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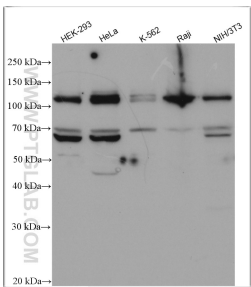
Selected Validation Data



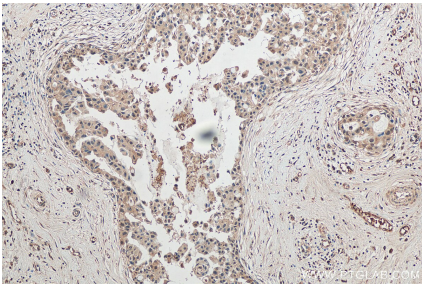
HeLa lysates prepared and IP of ITCH performed using 2.0 µg of 20920-1-AP coupled to protein A-Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



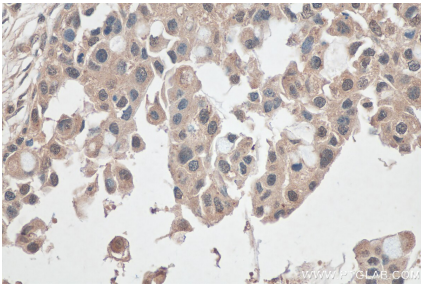
IP result of anti-ITCH (IP: 20920-1-AP, 4 µg; Detection: 20920-1-AP 1:300) with HEK-293 cells lysate 2400 µg.



Various lysates were subjected to SDS PAGE followed by western blot with 20920-1-AP (ITCH antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20920-1-AP (ITCH antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20920-1-AP (ITCH antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).