For Research Use Only

TET2 Polyclonal antibody

Catalog Number:21207-1-AP Featured Product 69 Publications

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Basic Information

Catalog Number:
21207-1-AP

Size:
150ul , Concentration: 800 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG15583

GenBank Accession Number:
BC150180

GeneID (NCBI):
54790

UNIPROT ID:
Q6N021

Full Name:
tet oncogene family member 2

Calculated MW:
2002 aa, 224 kDa

Observed MW:
130 kDa, 250 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:250-1:1000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, CoIP, ChIP

Species Specificity:
human, mouse

Cited Species:
human, mouse, sheep, goat

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 : A431 cells, HL-60 cells, HEK-293 cells, HeLa cells, HepG2 cells, K-562 cells

IP : mouse brain tissue,

IHC : human colon cancer tissue,

IF/ICC : HeLa cells,

Background Information

TET2 is an enzyme which converts 5-methylcytosine (5-mC) to 5-hydroxymethylcytosine (5-hmC) in DNA and is important for normal myelopoiesis. TET2 mutations are frequently observed in myeloid malignancies, including myeloproliferative neoplasms. TET2 is broadly expressed in a variety of tissues. In healthy tissues, TET2 expression was shown to be elevated in hematopoietic cells with highest expression in granulocytes. Three isoforms of TET2 exists due to the alternative splicing. 220-250 kDa bands represent the full-length isoform; 130-133 kDa bands represent the nuclear isoforms of TET2. (PMID: 24615693) This antibody recognizes all three isoforms of TET2.

Notable Publications

Author	Pubmed ID	Journal	Application
Shanshan Li	33014158	Oncol Lett	WB
Wei Zhong	30456333	JACC Basic Transl Sci	WB
Xiang Sun	31515281	J Exp Med	WB

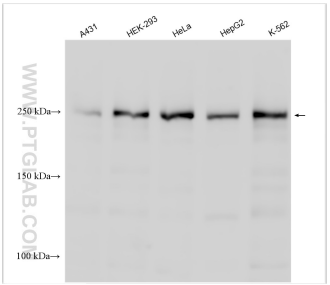
Storage

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

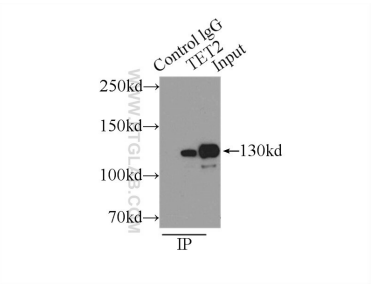
*** 20ul sizes contain 0.1% BSA

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

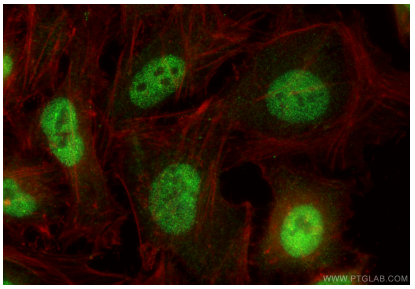
Selected Validation Data



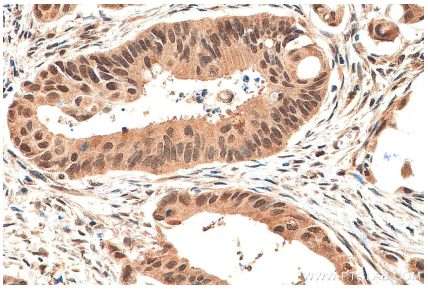
Various lysates were subjected to SDS PAGE followed by western blot with 21207-1-AP (TET2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



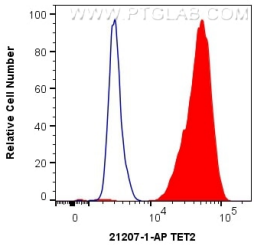
IP result of anti-TET2 (IP:21207-1-AP, 3ug; Detection:21207-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TET2 antibody (21207-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 21207-1-AP (TET2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human TET2 (21207-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).