For Research Use Only

TNFR1/CD120a Monoclonal antibody

Catalog Number:60192-1-Ig Featured Product 15 Publications

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Basic Information

Catalog Number:
60192-1-Ig

Concentration:
1000 ug/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG16112

GenBank Accession Number:
BC010140

GeneID (NCBI):
7132

UNIPROT ID:
P19438

Full Name:
tumor necrosis factor receptor superfamily, member 1A

Calculated MW:
455 aa, 50 kDa

Observed MW:
50-55 kDa

Purification Method:
Protein G purification

CloneNo.:
2A6E3

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:50-1:500
IF-P: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat, pig

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 : pig brain tissue, A549 cells, Daudi cells, HL-60 cells, HeLa cells, rabbit brain tissue, rat brain tissue, mouse brain tissue

IHC : human liver cancer tissue, human colon cancer tissue

IF-P : human liver cancer tissue,

Background Information

Tumor necrosis factor (TNF) is a multifunctional cytokine that plays a key role in regulating inflammation, immune functions, host defense, and apoptosis (PMID: 16407280). TNF exists in soluble and membrane-bound forms. TNF signals through two distinct cell surface receptors, TNFR1 (TNFRSF1A, CD120a) and TNFR2 (TNFRSF1B, CD120b). Whereas TNFR1 is widely expressed, expression of TNFR2 is limited to cells of the immune system, endothelial cells, and nerve cells (PMID: 22053109). TNFR1, which contains a death domain (DD) within its intracytoplasmic region, is thought to be the key receptor for TNF signaling (PMID: 16407280). This receptor can activate NF-kappaB, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor.

Notable Publications

Author	Pubmed ID	Journal	Application
Xing-Wei Jin	34984178	Transl Androl Urol	IHC
Qian Chen	30187338	Inflammation	
Min Zhang	35603220	Front Immunol	WB,IF

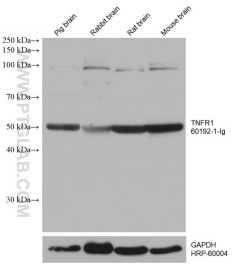
Storage

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

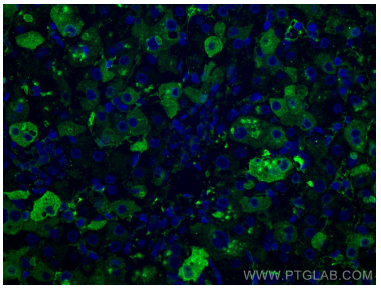
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

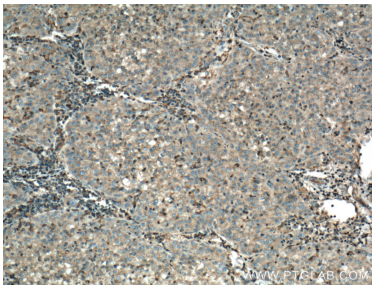
Selected Validation Data



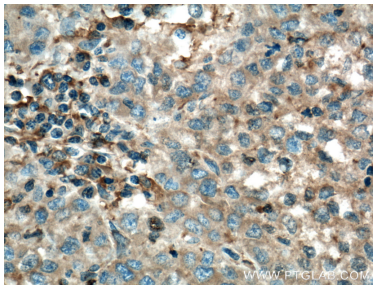
Various lysates were subjected to SDS PAGE followed by western blot with 60192-1-Ig (TNFR1/CD120a antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using TNFR1/CD120a antibody (60192-1-Ig, Clone: 2A6E3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60192-1-Ig (TNFR1/CD120a 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 liver cancer tissue slide using 60192-1-Ig (TNFR1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).