For Research Use Only

GABPA Recombinant antibody

Catalog Number:84951-4-RR

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Basic Information

Catalog Number:
84951-4-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG16191

GenBank Accession Number:
BC035031

GeneID (NCBI):
2551

UNIPROT ID:
Q06546

Full Name:
GA binding protein transcription factor, alpha subunit 60kDa

Calculated MW:
454 aa, 51 kDa

Observed MW:
56-60 kDa

Purification Method:
Protein A purfication

CloneNo.:
242578F10

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:250-1:1000
IF/ICC 1:250-1:1000

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
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, mouse brain tissue, K-562 cells, HuH-7 cells, HeLa cells, NIH/3T3 cells, rat brain tissue

IHC : human cervical cancer tissue,

IF/ICC : NIH/3T3 cells, HeLa cells

Background Information

GA-binding protein alpha chain (GABP alpha subunit, GABPA, nuclear respiratory factor 2 subunit alpha, transcription factor E4TF1-60) is one of three GA-binding protein transcription factor subunits which functions as a DNA-binding subunit.GABPA is a member of Ets family, binds to the Yap promoter and activates YAP transcription(23684612). Since this subunit shares identity with a subunit encoding the nuclear respiratory factor 2 gene, it is likely involved in activation of cytochrome oxidase expression and nuclear control of mitochondrial function. This subunit also shares identity with a subunit constituting the transcription factor E4TF1, responsible for expression of the adenovirus E4 gene. Because of its chromosomal localization and ability to form heterodimers with other polypeptides, this gene may play a role in the Down Syndrome phenotype.

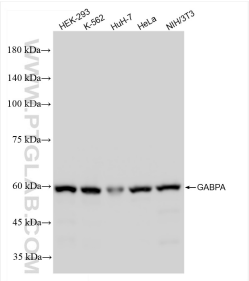
Storage

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

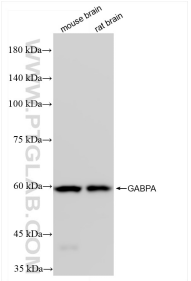
*** 20ul sizes contain 0.1% BSA

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84951-4-RR (GABPA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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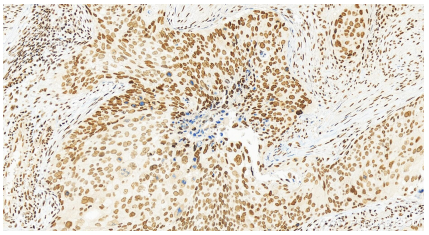
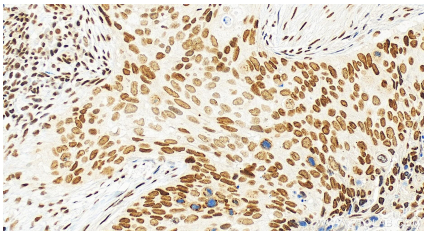


Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 84951-4-RR (GABPA antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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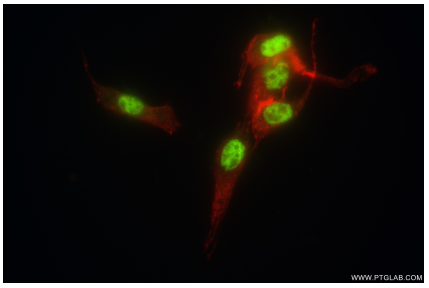
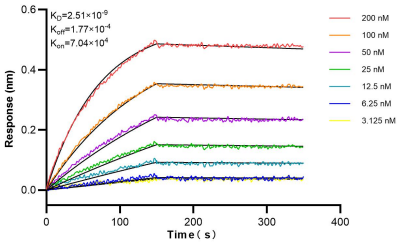


Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using GABPA antibody (84951-4-RR, Clone: 242578F10) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84951-4-RR against Human GABPA were performed. The affinity constant is 2.51 nM.