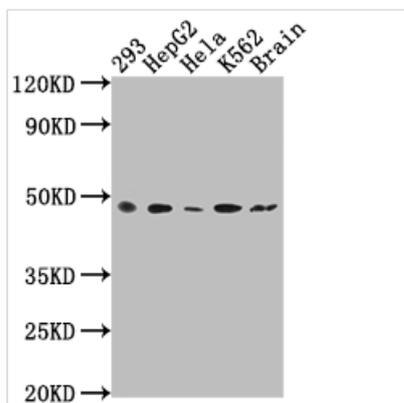




FNTB Recombinant Monoclonal Antibody

Product Code	CSB-RA267691A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P49356
Immunogen	A synthesized peptide derived from human FNTB
Species Reactivity	Human, Rat
Tested Applications	ELISA, WB, IHC, IP; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000
Relevance	Essential subunit of the farnesyltransferase complex. Catalyzes the transfer of a farnesyl moiety from farnesyl diphosphate to a cysteine at the fourth position from the C-terminus of several proteins having the C-terminal sequence Cys-aliphatic-aliphatic-X.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Metabolism; Signal transduction
Gene Names	FNTB
Clone No.	5H4

Image



Western Blot

Positive WB detected in: 293 whole cell lysate, HepG2 whole cell lysate, HeLa whole cell lysate, K562 whole cell lysate, Rat brain tissue

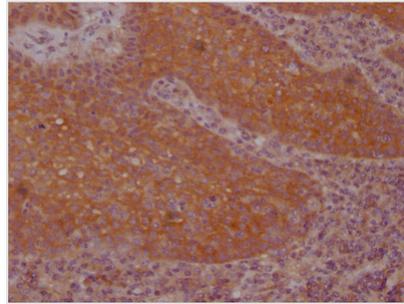
All lanes: FNTB antibody at 1:2000

Secondary

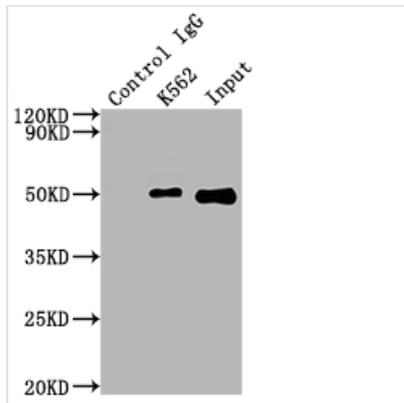
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 49, 44 kDa

Observed band size: 49 kDa



IHC image of CSB-RA267691A0HU diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunoprecipitating FNTB in K562 whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-RA267691A0HU in K562 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-RA267691A0HU(2μg)+ K562 whole cell lysate(500μg)

Lane 3: K562 whole cell lysate (10μg)

Description

The production of the recombinant FNTB antibody depended on Single B Cell technology. There are 3 main steps in the production: 1, Isolation of single B cells. High-throughput methods could be used to obtain the efficient identification and desired specificity of B cells. 2, Single B cell antibody sequencing and cloning. In this step, the antibody gene sequence of FNTB was obtained and introduced to plasmids, which then would be transferred to mammalian cells for in vitro expression of the FNTB antibody. 3, Screening of antibodies. The target antibody was obtained in this step. And it has been validated in ELISA, WB, IHC, IP.

FNTB is a protein-coding gene that encodes the protein farnesyltransferase subunit beta. The related pathways are G-protein signaling_H-RAS regulatory pathway and G-protein signaling_RhoB regulatory pathway. According to some studies, FNTB may have the following features.

Overexpression of FNTB and activation of Ras induces hypertrophy and promotes cardiomyocyte apoptosis and autophagic cell death. The lack of FNTB interfered with the conversion of prelamin A to mature lamin A, resulting in a significant accumulation of unarylated prelamin A on Western blot.