SunLong Biotech Co.,LTD
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Rabbit Anti-Pokemon antibody

SL10235R

Product Name	Pokemon
Chinese Name	扑克蒙蛋白抗体
Alias	ZBTB7; ZBTB7A; Factor binding IST protein 1; Factor that binds to inducer of short transcripts protein 1; FBI-1; FBI1; HIV-1 1st-binding protein 1; Leukemia/lymphoma related factor; LRF; Pokemon; TIP21; TTF-I interacting peptide 21; Zinc finger and BTB domain-containing protein 7A; ZBT7A_HUMAN.
Research Area	Tumour immunology Microbiology transcriptional regulatory factor Bacteria and viruses Zinc finger protein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Rat,Chicken,Dog,Pig,Cow,Sheep,Human)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	63kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Pokemon: 321-420/584
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Mouse(predicted:Rat,Chicken,Dog,Pig,Cow,Sheep,Human)1M TBS(pH7.4) with 1% BSA, Mouse(predicted:Rat,Chicken,Dog,Pig,Cow,Sheep,Human)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed PubMed

Pokemon, the POK erythroid myeloid ontogenic factor, not only regulates the expression of many genes, but also plays an important role in cell tumorigenesis. To investigate the molecular mechanism regulating expression of the Pokemon gene in humans, its 5'-upstream region was cloned and analyzed. Transient analysis revealed that the Pokemon promoter is constitutive. Deletion analysis and a DNA decoy assay indicated that the NEG-U and NEG-D elements were involved in negative regulation of the Pokemon promoter, whereas the POS-D element was mainly responsible for its strong activity. Electrophoretic mobility shift assays suggested that the NEG-U, NEG-D and POS-D elements were specifically bound by the nuclear extract from A549 cells in vitro. Mutation analysis demonstrated that cooperation of the NEG-U and NEG-D elements led to negative regulation of the Pokemon promoter. Moreover, the NEG-U and NEG-D elements needed to be an appropriate distance apart in the Pokemon promoter in order to cooperate. Taken together, our results elucidate the mechanism underlying the regulation of Pokemon gene transcription, and also define a novel regulatory sequence that may be used to decrease expression of the Pokemon gene in cancer gene therapy.

Product Detail

Function:
Plays a key role in the instruction of early lymphoid progenitors to develop into B lineage by repressing T-cell instructive Notch signals (By similarity). Specifically represses the transcription of the CDKN2A gene. Efficiently abrogates E2F1-dependent CDKN2A transactivation/de-repression. Binds to the consensus sequence 5'-[GA][CA]GACCCCCCCCC-3'.

Subunit:
Interacts with BCL6.

Subcellular Location:
Nucleus.

Tissue Specificity:
Widely expressed. In normal thymus, expressed in medullary epithelial cells and Hassle's corpuscles (at protein level). In tonsil, expressed in squamous epithelium and germinal center lymphocytes (at protein level). Up-regulated in a subset of lymphomas, as well as in a subset of breast, lung, colon, prostate and bladder carcinomas (at protein level).

Similarity:
Contains 1 BTB (POZ) domain.
Contains 4 C2H2-type zinc fingers.

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SWISS:
O95365

Gene ID:
51341

Database links:

Entrez Gene: 51341 Human

Entrez Gene: 16969 Mouse

Omim: 605878 Human

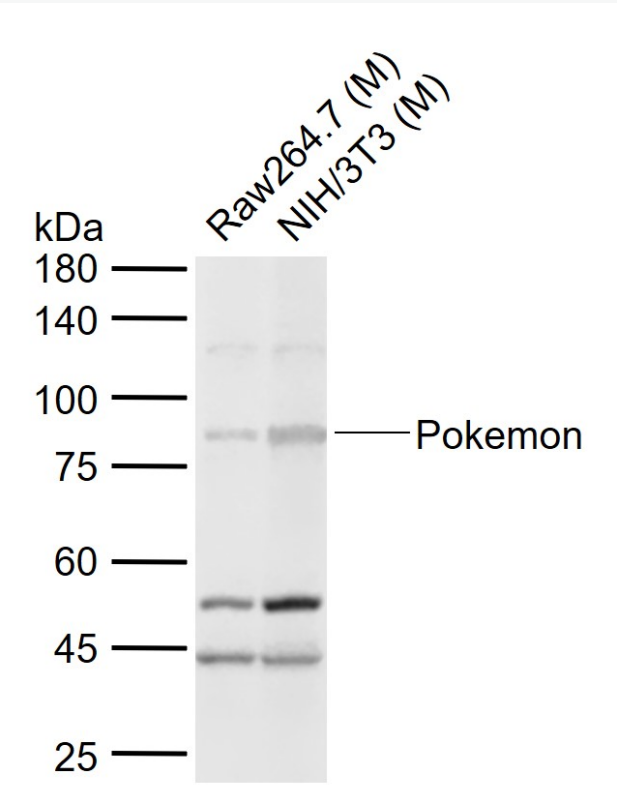
SwissProt: O95365 Human

SwissProt: O88939 Mouse

Unigene: 591384 Human

Unigene: 20920 Mouse

Product Picture



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Sample:

Lane 1: Mouse Raw264.7 cell lysates

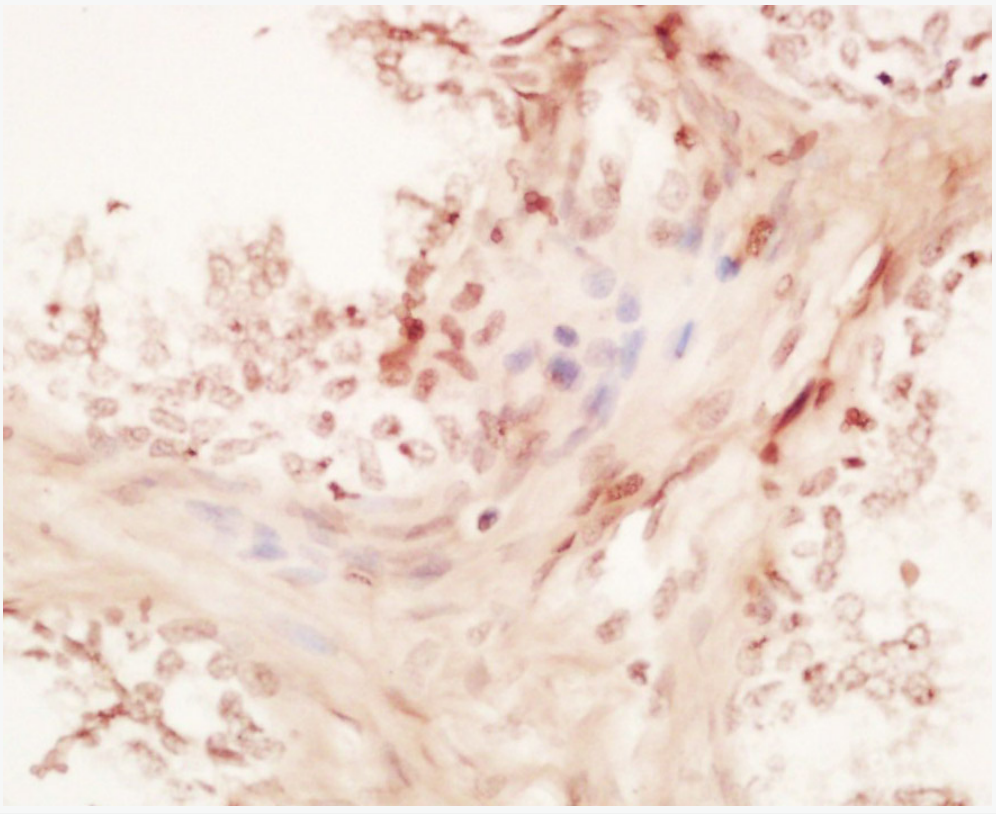
Lane 2: Mouse NIH/3T3 cell lysates

Primary: Anti-Pokemon (SL10235R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 63 kDa

Observed band size: 78 kDa



Tissue/cell: human prostate tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

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Antigen retrieval: citrate buffer

(Mouse(predicted:Rat,Chicken,Dog,Pig,Cow,Sheep,Human)1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Pokemon Polyclonal Antibody, Unconjugated(SL10235R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining