SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-Pokemon/ZBTB7A antibody

SL0891R

Product Name	Pokemon/ZBTB7A
Chinese Name	扑克蒙蛋白抗体
Alias	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; ZBTB7; ZBTB7A; Zinc finger and BTB domain-containing protein 7A; ZBT7A_HUMAN.
Research Area	Tumour immunology Microbiology transcriptional regulatory factor Bacteria and viruses
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat,)
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: 151-250/569
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 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.

SWISS:
O95365

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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

Pokemon(7APOK Erythroid Myeloid Ontogenic factor)能够控制将正常细胞变成癌细胞所需的途径,Pokemon 蛋白是转录因子蛋白家族的一员，并且在人类癌症中发生了突变。另外 Pokemon 蛋白作为转录因子参与一些细胞基因转录的调节,并在 Cell differentiation 过程中发挥着关键、多效性的功能。近来发现,Poke-mon 在致癌转化过程中发挥着至关重要的功能,并与 Tumour 的发生密切相关。
这种蛋白很可能在实质 Tumour 中处于重要地位,还有学者认为：Pokemon 在一定类型的 B 细胞和 T 细胞淋巴瘤中水平非常高，并发现具有高水平 Pokemon 蛋白表达对 Tumour 恶性程度改变更大。
主要定位于 The nucleus。
扑克蒙”蛋白又称“波克曼”蛋白。

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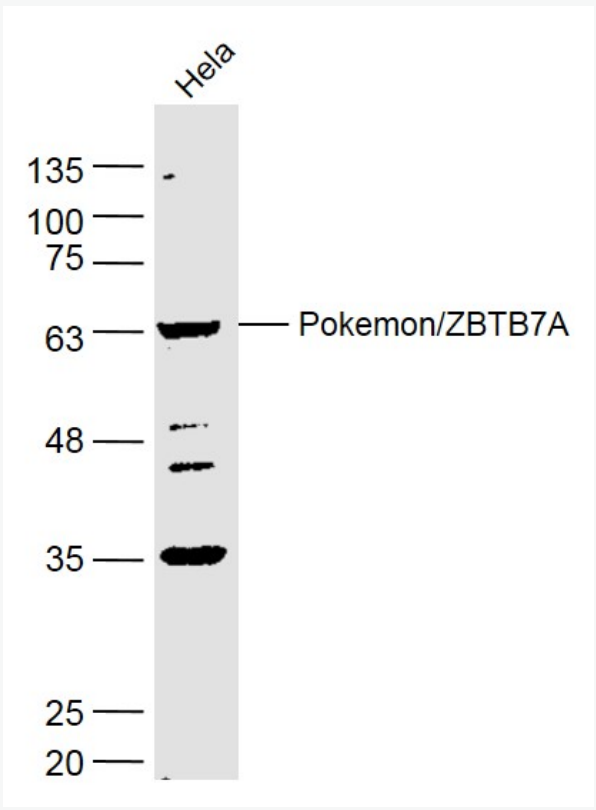
Product Picture



Sample:

Hela(Human) Cell Lysate at 30 ug

Primary: Anti-Pokemon/ZBTB7A (SL0891R) at 1/300 dilution

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

Predicted band size: 63 kD

Observed band size: 63 kD

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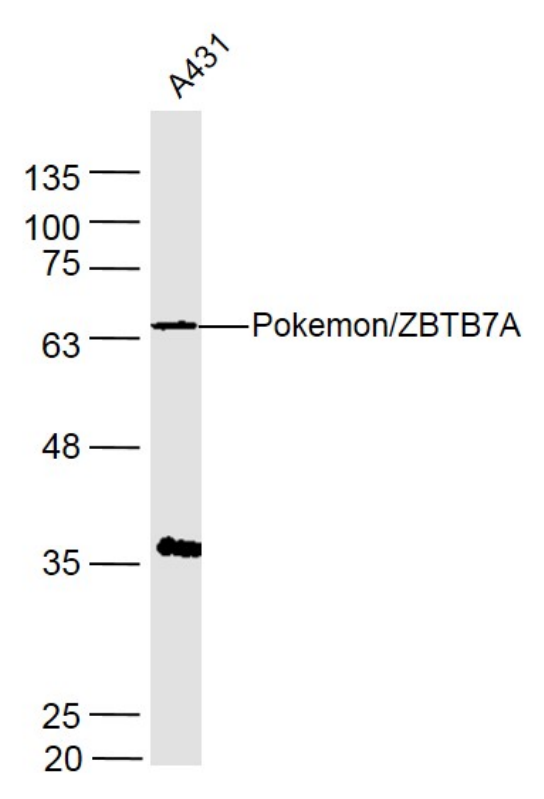

Sample:

A431(Human) Cell Lysate at 30 ug

Primary: Anti-Pokemon/ZBTB7A (SL0891R) at 1/300 dilution

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

Predicted band size: 63 kD

Observed band size: 63 kD

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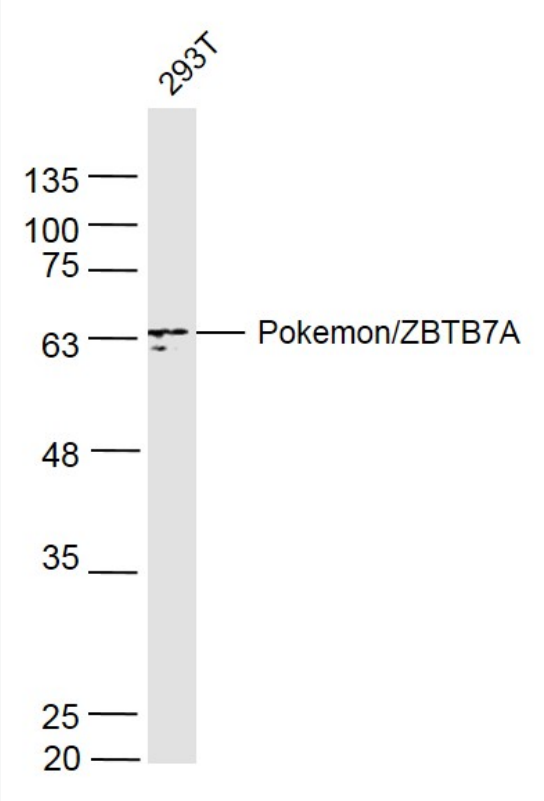

Sample:

293T(Human) Cell Lysate at 30 ug

Primary: Anti-Pokemon/ZBTB7A (SL0891R) at 1/300 dilution

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

Predicted band size: 63 kD

Observed band size: 63 kD

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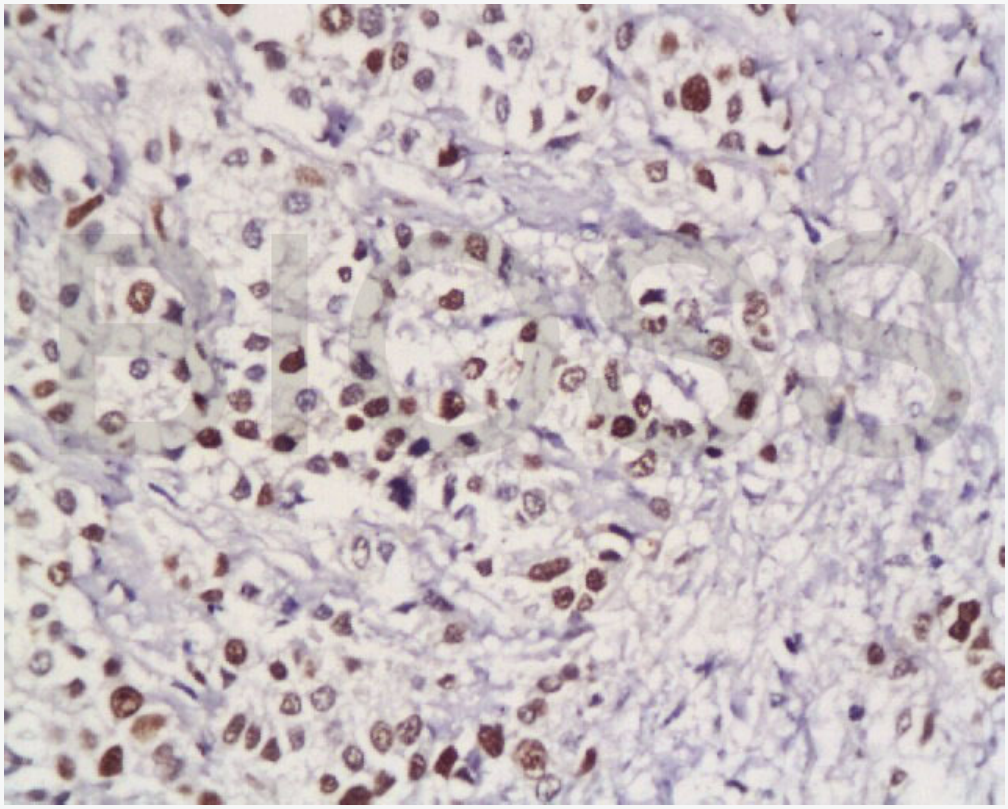

Tissue/cell: human gratis carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (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(SL0891R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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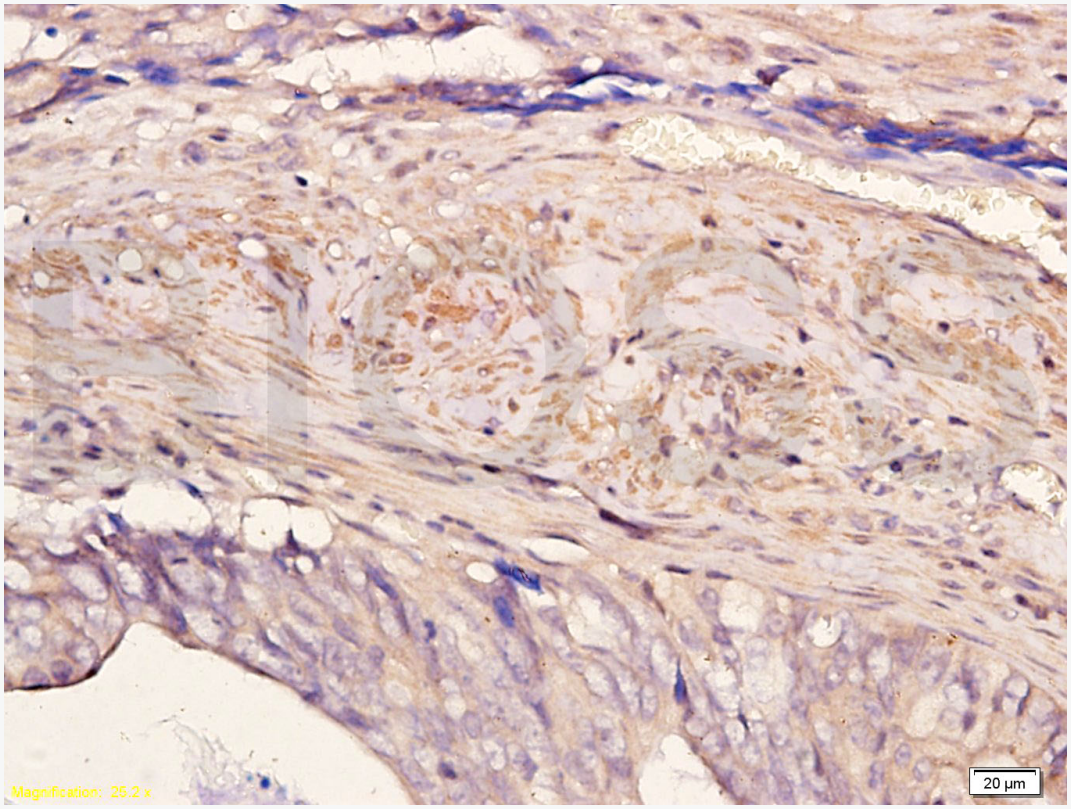

Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (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(SL0891R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining