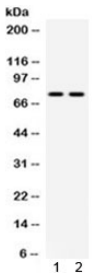
ZBTB7A Antibody / Pokemon (R31842)

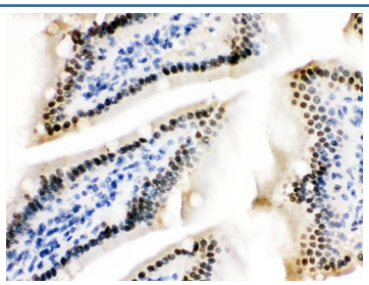
Catalog No.	Formulation	Size
R31842	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

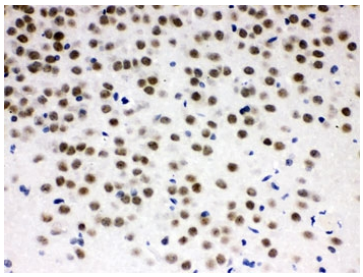
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	O88939
Localization	Nuclear
Applications	Western Blot : 0.1-0.5ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This ZBTB7A antibody is available for research use only.



Western blot testing of mouse 1) kidney and 2) NIH3T3 lysate with ZBTB7A antibody. Predicted molecular weight ~61 kDa but routinely observed at ~75 kDa.



IHC testing of FFPE mouse intestine with ZBTB7A antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC testing of FFPE rat brain with ZBTB7A antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.

Description

Zinc finger and BTB domain-containing protein 7A, also called Pokemon and FBI-1, is a protein that in humans is encoded by the ZBTB7A gene. It has a critical oncosuppressive role in the prostate. Prostate-specific inactivation of ZBTB7A leads to a marked acceleration of PTEN loss-driven prostate tumorigenesis through bypass of PTEN loss-induced cellular senescence. It has been showed that ZBTB7A physically interacts with SOX9 and functionally antagonizes its transcriptional activity on key target genes such as MIA, which is involved in tumor cell invasion, and H19, a long noncoding RNA precursor for an RB-targeting microRNA. Inactivation of ZBTB7A in vivo leads to RB downregulation, bypass of PTEN loss-induced cellular senescence, and invasive prostate cancer. Notably, it has been also found that ZBTB7A is genetically lost, as well as downregulated at both the mRNA and protein levels, in a subset of human advanced prostate cancers. Therefore, ZBTB7A is identified as a context-dependent cancer gene that can act as an oncogene in some contexts but that also has oncosuppressive-like activity in PTEN-null tumors.

Application Notes

Optimal dilution of the ZBTB7A antibody should be determined by the researcher.

Immunogen

Amino acids DLLERQILAADDVGDASQPDGAGPTDQRNLLRAKEYLEF of mouse ZBTB7A were used as the immunogen for the ZBTB7A antibody.

Storage

After reconstitution, the ZBTB7A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (1)