

Rabbit Anti-ANKK1/AP Conjugated antibody

SL12475R-AP

Product Name	Anti-ANKK1/AP
Chinese Name	碱性磷酸酶（AP）标记的锚定蛋白重复结构域蛋白激酶 ANKK1 抗体
Alias	Ankyrin repeat and kinase domain containing 1; Ankyrin repeat and protein kinase domain containing protein 1; EC 2.7.11.1; PKK2; Protein kinase PKK2; SGK288; Sugen kinase 288; X kinase; ANKK1_HUMAN.
Research Area	Signal transduction Apoptosis Cell differentiation
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Chicken,Dog,Horse)
Applications	IHC-P=1:100-500,IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	85kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ANKK1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the serine/threonine (Ser/Thr) protein kinases. ANKK1 (ankyrin repeat and kinase domain containing 1), also known as PKK2 or SGK288, is a 765 amino acid

protein that belongs to the Ser/Thr protein kinase family and contains 12 ANK repeats and one protein kinase domain. Highly expressed in brain tissue and present in lower amounts in placenta and spinal cord, ANKK1 functions to catalyze the ATP-dependent phosphorylation of target proteins and is thought to play a role in alcohol and nicotine dependence. The gene encoding ANKK1 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome.

Function:

ANKK1 belongs to the TKL Ser/Thr protein kinase superfamily, contains twelve ANK repeats and one protein kinase domain. The protein is weakly expressed in testis, placenta, and spinal cord.

Tissue Specificity:

Highly expressed in brain and weakly expressed in placenta and spinal cord.

Similarity:

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Contains 12 ANK repeats. Contains 1 protein kinase domain.

Database links:

[Entrez Gene: 785303](#) Cow

[Entrez Gene: 489403](#) Dog

[Entrez Gene: 100054819](#) Horse

[Entrez Gene: 255239](#) Human

[Omim: 608774](#) Human

[SwissProt: Q8NFD2](#) Human

[Unigene: 448473](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.