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[Marker Primary Antibody]

Rabbit Anti-ANKK1/Biotin Conjugated antibody

Catalog Number: SL12475R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ANKK1/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human ANKK1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Dog,Horse)
Background:	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

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	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.