



# Rabbit Anti-Human Erythrocyte Ankyrin 2.1/2.2 Polyclonal antibody (CPBT-66611RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rabbit anti Human Erythrocyte Ankyrin antibody recognizes erythroid ankyrin (ankyrin-1), also known as ankyrin R or erythrocyte ankyrin. Ankyrin 1 is a 1881 amino acid ~220kDa cytoplasmic protein forming an attachment for a number of integral membrane proteins and cytoskeletal elements. Ankyrin-1 contains a large number of ankyrin repeats, a death domain and two ZU5 domains (UniProt: P16157). Multiple isoforms of ankyrin-1 are generated by alternative splicing and promptor usage, Rabbit anti Human Erythrocyte Ankyrin antibody is expected to recognize all erythrocyte isoforms of ankyrin-1 but is not expected to recognize the N-terminally truncated muscle isoforms of ankyrin-1. Additionally Rabbit anti Human Erythrocyte Ankyrin antibody is likely to cross react with ankyrin-1 from chimpanzee (*Pan troglodytes*) and lowland gorilla (*Gorilla gorilla gorilla*). Most ankyrins are composed of 3 structural domains; a N-terminal regulatory domain containing multiple ankyrin repeats, a central spectrin binding domain and a C-terminal regulatory domain. Ankyrin-1 is present in erythrocytes and has also been found in brain and muscle. Mutations in erythrocytic ankyrin-1 are associated with hereditary spherocytosis. Peptide Sequence PYSVGFREADA{-C} Western Blotting In blots of human erythrocytes bands of 220 kDa were observed.

<b>Specificity</b>	ERYTHROCYTE ANKYRIN 2.1/2.2
<b>Immunogen</b>	Synthetic peptide corresponding to the amino acids 1 - 11 of the native protein conjugated to Keyhole Limpet Haemocyanin.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA; WB

<b>Format</b>	Purified IgG - liquid
<b>Size</b>	1 ml
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ANK1 ankyrin 1, erythrocytic [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ANK1
<b>Synonyms</b>	ANK1; ankyrin 1, erythrocytic; ANK; SPH1; SPH2; ankyrin-1; ANK-1; ankyrin-R; erythrocyte ankyrin; ERYTHROCYTE ANKYRIN 2.1/2.2;
<b>Entrez Gene ID</b>	<a href="#">286</a>
<b>Protein Refseq</b>	<a href="#">NP_000028</a>
<b>UniProt ID</b>	P16157
<b>Chromosome Location</b>	8p11.1
<b>Pathway</b>	Axon guidance; CHL1 interactions; Developmental Biology; Interaction between L1 and Ankyrins; L1CAM interactions; Neurofascin interactions; NrCAM interactions; Proteoglycans in cancer;
<b>Function</b>	ATPase binding; cytoskeletal adaptor activity; enzyme binding; protein binding; spectrin binding; structural constituent of cytoskeleton; structural molecule activity;