

ANK3 / ANKYRIN-G Antibody (clone S106-20)
Mouse Monoclonal Antibody
Catalog # ALS15331**Specification**

ANK3 / ANKYRIN-G Antibody (clone S106-20) - Product Information

Application	IHC
Primary Accession	Q12955
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	480kDa KDa

ANK3 / ANKYRIN-G Antibody (clone S106-20) - Additional Information**Gene ID** 288**Other Names**

Ankyrin-3, ANK-3, Ankyrin-G, ANK3

Target/Specificity

Detects over 200kDa.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

ANK3 / ANKYRIN-G Antibody (clone S106-20) is for research use only and not for use in diagnostic or therapeutic procedures.

ANK3 / ANKYRIN-G Antibody (clone S106-20) - Protein Information**Name** ANK3 ([HGNC:494](#))**Function**

Membrane-cytoskeleton linker. May participate in the maintenance/targeting of ion channels and cell adhesion molecules at the nodes of Ranvier and axonal initial segments (PubMed:7836469). In skeletal muscle, required for costamere localization of DMD and betaDAG1 (By similarity). Regulates KCNA1 channel activity in function of dietary Mg(2+) levels, and thereby contributes to the regulation of renal Mg(2+) reabsorption (PubMed:23903368). Required for intracellular adhesion and junctional conductance in myocytes, potentially via stabilization of GJA1/CX43 protein abundance and promotion of PKP2, GJA1/CX43, and SCN5A/Nav1.5 localization to cell-cell junctions (By similarity).

Cellular Location

Cytoplasm, cytoskeleton. Cell projection, axon {ECO:0000250|UniProtKB:O70511}. Cell

membrane, sarcolemma. Postsynaptic cell membrane {ECO:0000250|UniProtKB:O70511}. Lysosome {ECO:0000250|UniProtKB:G5E8K5}. Cell membrane, sarcolemma, T-tubule {ECO:0000250|UniProtKB:O70511}. Note=In skeletal muscle, localized at costameres and neuromuscular junctions. In macrophages, associated with lysosomes. {ECO:0000250|UniProtKB:G5E8K5, ECO:0000250|UniProtKB:O70511}

Tissue Location

Expressed in brain, neurons, muscles and other tissues.

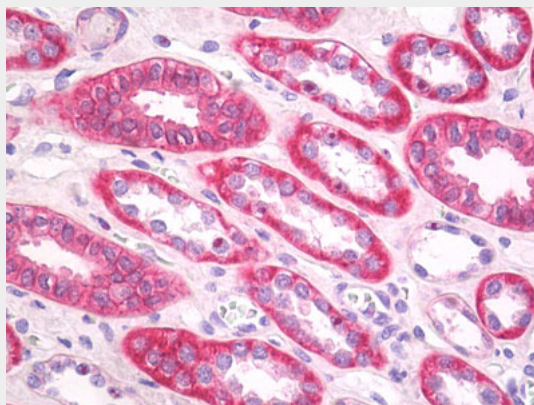
Volume

50 µl

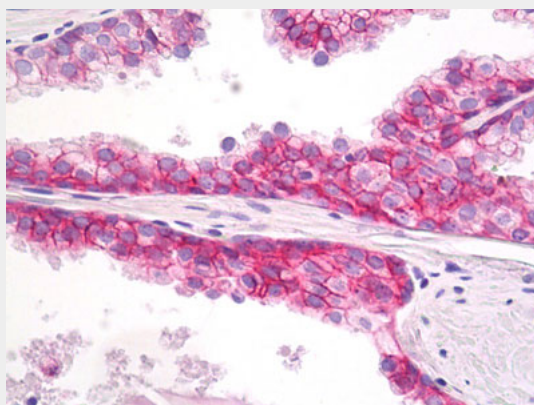
ANK3 / ANKYRIN-G Antibody (clone S106-20) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ANK3 / ANKYRIN-G Antibody (clone S106-20) - Images

Anti-ANK3 / ANKYRIN-G antibody IHC of human kidney.



Anti-ANK3 / ANKYRIN-G antibody IHC of human prostate.

ANK3 / ANKYRIN-G Antibody (clone S106-20) - Background

In skeletal muscle, required for costamere localization of DMD and betaDAG1 (By similarity). Membrane-cytoskeleton linker. May participate in the maintenance/targeting of ion channels and cell adhesion molecules at the nodes of Ranvier and axonal initial segments. Regulates KCNA1 channel activity in function of dietary Mg(2+) levels, and thereby contributes to the regulation of renal Mg(2+) reabsorption (PubMed:23903368).

ANK3 / ANKYRIN-G Antibody (clone S106-20) - References

Kordeli E.,et al.J. Biol. Chem. 270:2352-2359(1995).
Devarajan P.,et al.J. Cell Biol. 133:819-830(1996).
Wiemann S.,et al.Genome Res. 11:422-435(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).