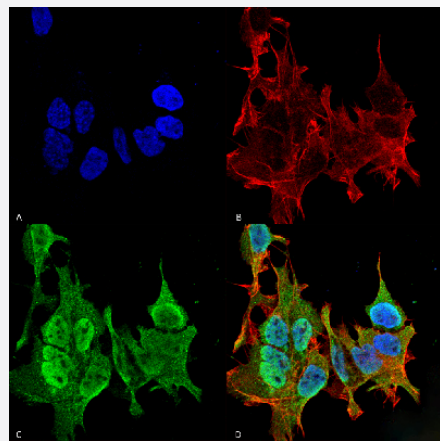


# ANK2 monoclonal antibody, clone S105-13 (HRP)

Catalog # MAB16999      Size 100 ug

## Applications



### Immunocytochemistry

Immunocytochemical staining of SK-N-BE with ANK2 monoclonal antibody, clone S105-13 (HRP) (Cat # MAB16999). (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ANK2 Antibody and (D) Composite.

## Specification

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against synthetic peptide of human ANK2. |
| <b>Immunogen</b>           | A synthetic peptide corresponding to amino acids 203-496 of human ANK2.   |
| <b>Host</b>                | Mouse                                                                     |
| <b>Reactivity</b>          | Human                                                                     |
| <b>Form</b>                | Liquid                                                                    |
| <b>Conjugation</b>         | HRP                                                                       |
| <b>Purification</b>        | Protein G purification                                                    |
| <b>Isotype</b>             | IgG1                                                                      |

|                            |                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommend Usage</b>     | Immunocytochemistry (1:200)<br>Immunofluorescence (1:200)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200)<br>Western Blot (1:1000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide).                                                                                                                                                                                       |
| <b>Storage Instruction</b> | Store at -20°C.                                                                                                                                                                                                                          |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                                   |

## Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunocytochemistry

Immunocytochemical staining of SK-N-BE with ANK2 monoclonal antibody, clone S105-13 (HRP) (Cat # MAB16999). (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ANK2 Antibody and (D) Composite.

- Immunofluorescence

## Gene Info — ANK2

|                           |                                               |
|---------------------------|-----------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">287</a>                           |
| <b>Protein Accession#</b> | <a href="#">Q01484</a>                        |
| <b>Gene Name</b>          | ANK2                                          |
| <b>Gene Alias</b>         | DKFZp686M09125, DKFZp686P0948, FLJ38277, LQT4 |
| <b>Gene Description</b>   | ankyrin 2, neuronal                           |
| <b>Omim ID</b>            | <a href="#">106410</a> <a href="#">600919</a> |
| <b>Gene Ontology</b>      | <a href="#">Hyperlink</a>                     |

**Gene Summary**

This gene encodes a member of the ankyrin family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton. Ankyrins play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. The protein encoded by this gene is required for targeting and stability of Na/Ca exchanger 1 in cardiomyocytes. Mutations in this gene cause long QT syndrome 4. Multiple transcript variants encoding different isoforms have been described. [provided by RefSeq]

**Other Designations**

OTTHUMP00000163834|ankyrin 2|ankyrin B|ankyrin, brain|ankyrin, nonerythroid|ankyrin-2, nonerythrocytic|brank-2

**Publication Reference**

- [Spectrin and ankyrin-based pathways: metazoan inventions for integrating cells into tissues.](#)

Bennett V, Baines AJ.

Physiological Reviews 2001 Jul; 81(3):1353.

**Disease**

- [Alcoholism](#)
- [Cardiovascular Diseases](#)
- [Death](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heart Arrest](#)
- [Heart Defects](#)
- [Long QT syndrome](#)
- [Neoplasm Invasiveness](#)
- [Prostatic Neoplasms](#)
- [Syncope](#)

- [Tobacco Use Disorder](#)
- [Torsades de Pointes](#)