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**[ Marker Primary Antibody ]**

# Rabbit Anti-TACC1/Cy3 Conjugated antibody

**Catalog Number: SL7939R-Cy3**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-TACC1/Cy3 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human TACC1 |
| **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:** | IF=1:100-500<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse) |
| **Background:** | background: TACC1 is one of three TACC family members, which are thought to be involved in breast tumorigenesis. TACC1 is located on 8p11 chromosomal region that is amplified in approximately 15% of all breast tumor samples. The short arm of chromosome 8 also contains FGFR1 whose expression is enhanced in most breast cancer tumors. TACC family members, TACC1, TACC2, and TACC3, map very closely to the corresponding FGFR1, FGFR2, FGFR3 genes on chromosomes 8, 10, and 4. Subsequently, since they are phylogenetically related, it is proposed that TACC and FGFR have similar roles in cell growth and differentiation. Also, TACC1 contains a conserved C-terminal region as in the Drosophila homolog, D-TACC. It has been shown that D-TACC is necessary for normal spindle function, and the mammalian TACC proteins appears to interact with centrosomes and microtubules in a similar manner<br>**Subunit:** Interacts with KIAA0097/CH-TOG and with the oncogenic transcription factor YEATS4. Interacts with AURKA, AURKB and AURKC. |

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

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| | Interacts with LSM7, TDRD7 and SNRPG. Interacts with GCN5L2 and PCAF.<br>**Subcellular Location:** Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, centrosome. Note=Nucleus during interphase. Weakly concentrated at centrosomes during mitosis and colocalizes with AURKC at the midbody during cytokinesis.<br>**Tissue Specificity:** Isoform 1, isoform 3 and isoform 5 are ubiquitous. Isoform 2 is strongly expressed in the brain, weakly detectable in lung and colon, and overexpressed in gastric cancer. Isoform 4 is not detected in normal tissues, but strong expression was found in gastric cancer tissues. Down-regulated in a subset of cases of breast cancer.<br>**Similarity:** Belongs to the TACC family.<br>Contains 2 SPAZ (Ser/Pro-rich AZU-1) domains.<br>**Database links:**<br>UniProtKB/Swiss-Prot: O75410.2<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |