

# SURVIVIN

## PROTEIN OVERVIEW

Survivin is involved in promoting cell proliferation and is an inhibitor of apoptosis. Survivin has a critical role in cancer proliferation and neural development. It may have an impact on neural cell proliferative responses following brain injury. Learn more about survivin below.

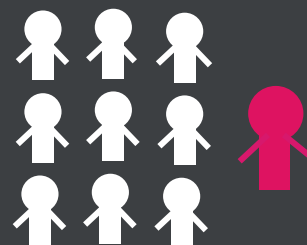
### GENE INFORMATION



Human  
**Name:** BIRC5  
**Entrez:** 332  
**Uniprot:** O15392

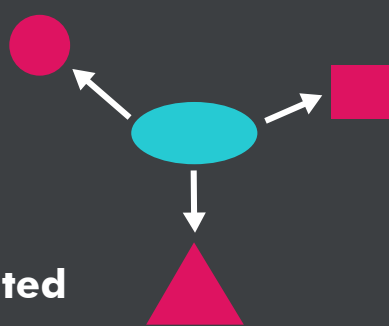
### FAMILY

**Belongs to:**  
Inhibitor of  
Apoptosis (IAP)  
gene family



### PATHWAYS

- Apoptosis
- Wnt
- Cell cycle
- p53-mediated apoptosis



### MOLECULAR WEIGHT

Canonical Isoforms

- **Human:** 16.4 kDa
- **Mouse:** 16.3 kDa
- **Rat:** 16.7 kDa

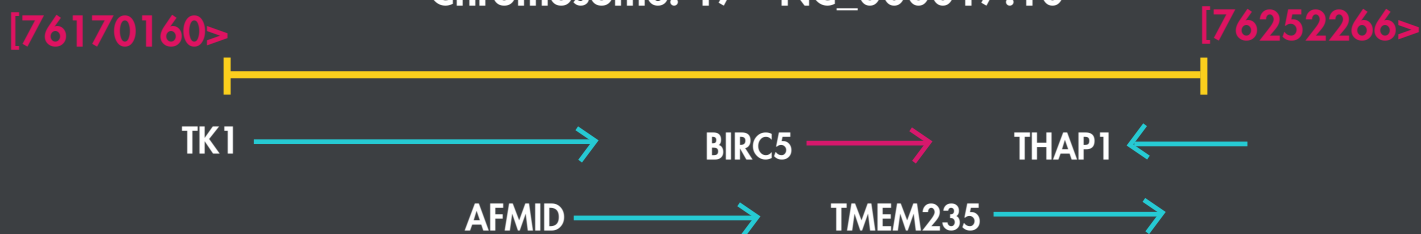


### GENOMIC CONTEXT

**Location:** 17q25

**Sequence:** Chromosome: 17; NC\_000017.10 (76210277..76221716)

Chromosome: 17 - NC\_000017.10



### TISSUE SPECIFICITY

- Highly expressed in adenocarcinoma, high-grade lymphomas
- Expressed in fetal kidney and liver



### SUBCELLULAR LOCALIZATION

Cell Cycle Localization

- **Prophase & metaphase**
  - Centromeres
- **Metaphase**
  - Kinetochores & centromeres
- **Anaphase & telophase**
  - Microtubules
- **Mitotic chromosomes**

### INTERACTING PROTEINS

- CASP9
- AURKB
- CASP7
- CDK1
- CASP3
- STAT3



### DISEASES

- Carcinomas
- Leukemia
- Malignant Neoplasms
- Non-Hodgkin lymphoma

