

## Product datasheet for **TA351059**

### CD59 Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB: 500-2000<br>WB positive control: Huvec, hela and SKOV3 cells<br>IHC: 100-300<br>Positive control: Human thyroid cancer<br>Predicted cell location: Cytoplasm |
| Reactivity:             | Human  |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Synthetic peptide of human CD59  |
| Formulation:            | pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol   |
| Concentration:          | lot specific   |
| Purification:           | Antigen affinity purification  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 14 kDa   |
| Gene Name:              | CD59 molecule  |
| Database Link:          | <a href="#">NP_976074</a><br><a href="#">Entrez Gene 966 Human</a><br><a href="#">P13987</a>   |



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**Background:**

This gene encodes a cell surface glycoprotein that regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. This protein also plays a role in signal transduction pathways in the activation of T cells. Mutations in this gene cause CD59 deficiency, a disease resulting in hemolytic anemia and thrombosis, and which causes cerebral infarction.

**Synonyms:**

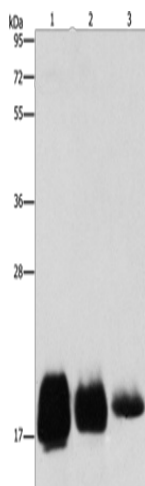
1F5; 16.3A5; EJ16; EJ30; EL32; G344; HRF-20; HRF20; MAC-IP; MACIF; MEM43; MIC11; MIN1; MIN2

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Complement and coagulation cascades, Hematopoietic cell lineage

**Product images:**

Gel: 10%SDS-PAGE

Lysate: 40 µg

Lane 1-3: Huvec cells

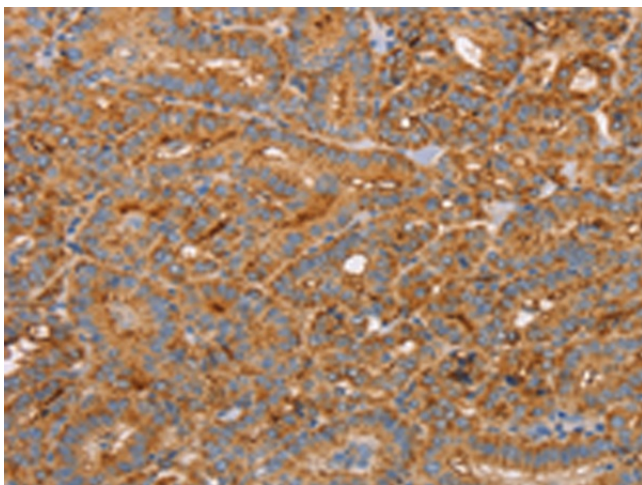
hela cells

SKOV3 cells

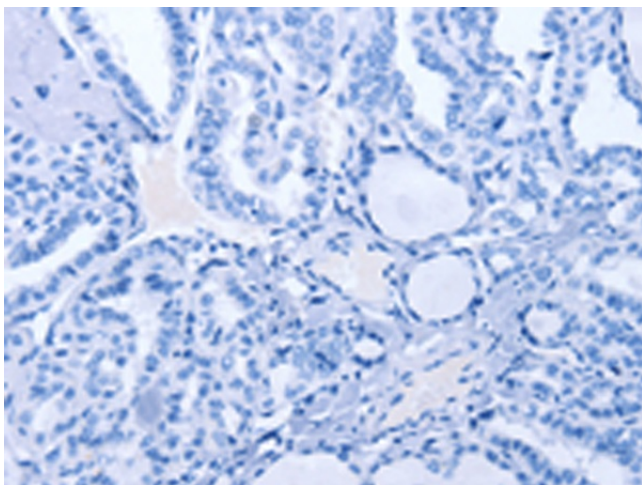
Primary antibody: TA351059 (CD59 Antibody) at dilution 1/500

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

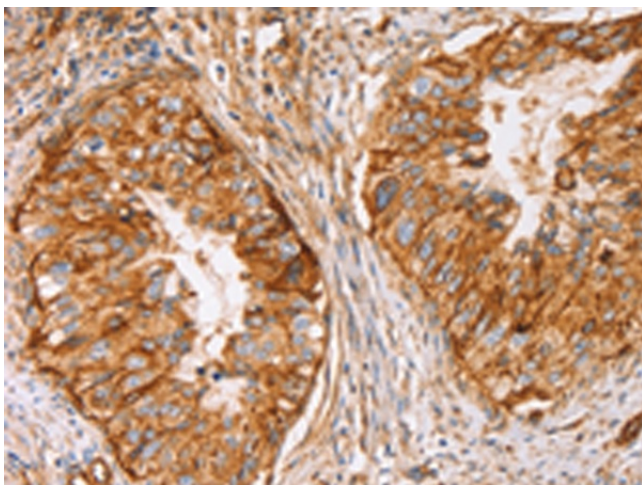
Exposure time: 30 seconds



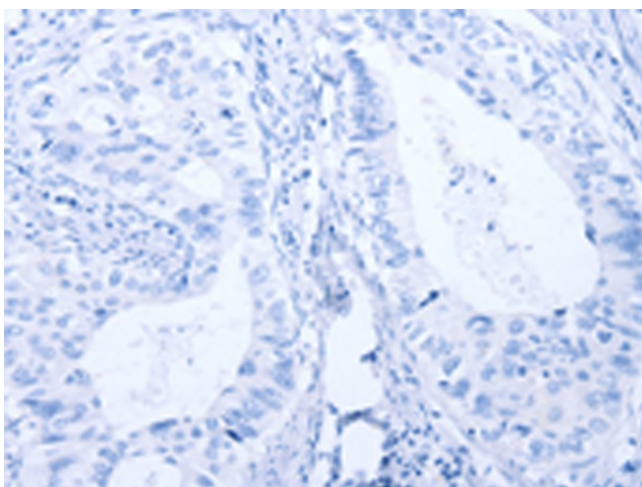
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351059 (CD59 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351059 (CD59 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA351059 (CD59 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA351059 (CD59 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification: ×200)