abcam

ab185231

# Anti-GCET2 antibody [EPR14333]

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | EPR14333 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 1.197 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/500 |
| **Notes** | - |

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/230 |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/2000 |
| **Notes** | - |

## Target data

See full target information GCSAM

| | |
|---|---|
| **Function** | Involved in the negative regulation of lymphocyte motility. It mediates the migration-inhibitory effects of IL6. Serves as a positive regulator of the RhoA signaling pathway. Enhancement of RhoA activation results in inhibition of lymphocyte and lymphoma cell motility by activation of its downstream effector ROCK. Is a regulator of B-cell receptor signaling, that acts through SYK kinase activation. |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Conditional Ambient |
| **Appropriate short-term storage duration** | 1-2 weeks |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |
| **Aliquoting information** | Upon delivery aliquot |
| **Storage information** | Avoid freeze / thaw cycle |

## Notes

**Patented technology**
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**What are the advantages of a recombinant monoclonal antibody?**
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

| | |
|---|---|
| **Activity summary** | GCET2 also known as germinal center-expressed transcript 2 or centroblast protein has a molecular mass of approximately 19 kDa. It expresses mainly in germinal center B cells specifically the centroblasts within lymphoid tissues. This protein functions mechanically by having a role in the regulation of B cell differentiation and proliferation. Research demonstrates its expression during specific stages of B cell development indicating an important involvement during immune processes. |
| **Biological function summary** | This protein influences the immune response by contributing to the maturation and selection of B cells within germinal centers. Although not known to be a part of any larger complex its expression corresponds with stages critical to adaptive immunity. GCET2 supports the processes that ensure only high-affinity B cell receptors mature fostering a strong and specific immune defense. |
| **Pathways** | Researchers place GCET2 in connection with the germinal center reaction a significant pathway in adaptive immunity. This pathway involves interaction with proteins such as Bcl-6 which regulates the formation and maintenance of germinal centers. Another pathway is the somatic hypermutation process critical for antibody diversity where GCET2 may influence the changes in antibody affinity. |
| **Associated diseases and disorders** | Scientists have linked GCET2 to certain conditions like lymphoma where its dysregulated expression may contribute to tumorigenesis. Evidence suggests that abnormalities in GCET2 expression levels correlate with the progression of some lymphoid malignancies. In autoimmune disorders this protein has associations with aberrant immune responses potentially increasing susceptibility to conditions characterized by excessive or uncontrolled immune activity. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

We do not recommend this combination. It is not covered by our product promise.

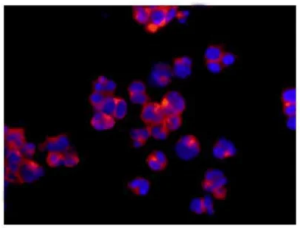
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We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

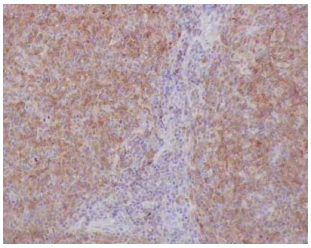
## 4 product images



### Immunocytochemistry/ Immunofluorescence - Anti-GCET2 antibody [EPR14333] (ab185231)

GCET2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-GCET2 antibody

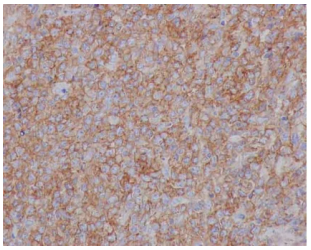
Immunofluorescent analysis of Raji cells labeling GCET2 with ab185231 at 1/500 (red) and DAPI staining (blue). Cells fixed in -20°C Acetone.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCET2 antibody [EPR14333] (ab185231)

GCET2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GCET2 antibody

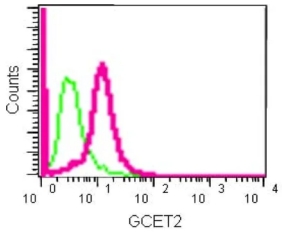
Immunohistochemical analysis of paraffin embedded Human Non Hodgkin's lymphoma tissue labeling GCET2 with ab185231 at 1/2000.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCET2 antibody [EPR14333] (ab185231)

GCET2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GCET2 antibody

Immunohistochemical analysis of paraffin embedded Human diffuse large B-cell lymphoma tissue labeling GCET2 with ab185231 at 1/2000.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.




## Flow Cytometry (Intracellular) - Anti-GCET2 antibody [EPR14333] (ab185231)

GCET2 Flow Cytometry (Intracellular) staining using rabbit Anti-GCET2 antibody

Intracellular flow cytometrical analysis of Raji cells labeling GCET2 with ab185231 at 1/230 and Goat anti rabbit IgG (FITC) at 1/150 as a secondary antibody compared to a negative control antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.