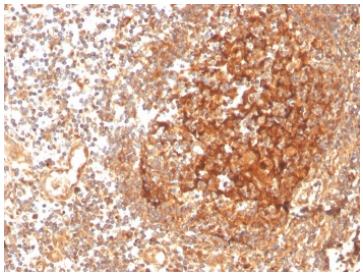
# GCLM Antibody [clone CPTC-GCLM-1] (V8219)

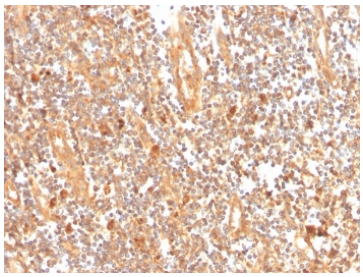
| Catalog No. | Formulation | Size |
|---|---|---|
| V8219-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8219-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8219SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

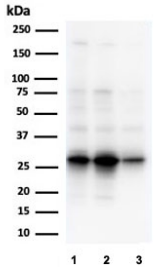
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | CPTC-GCLM-1 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P48507 |
| **Localization** | Cytoplasm |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT |
| **Limitations** | This GCLM antibody is available for research use only. |



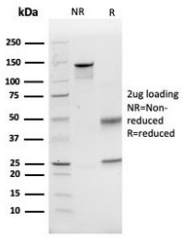
IHC staining of FFPE human tonsil with GCLM antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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Western blot testing of human 1) A549, 2) A431 and 3) HepG2 cell lysate with GCLM antibody. Expected molecular weight ~31 kDa.




SDS-PAGE analysis of purified, BSA-free GCLM antibody as confirmation of integrity and purity.

## Description

GCLM, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia.

## Application Notes

Optimal dilution of the GCLM antibody should be determined by the researcher.

## Immunogen

Recombinant human full-length GCLM protein was used as the immunogen for the GCLM antibody.

## Storage

Store the GCLM antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).


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