# SARS-CoV-2 Spike RBD Mouse mAb

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Catalog No.: A23771

## **Basic Information**

## **Observed MW**

30kDa

#### **Calculated MW**

# Category

Primary antibody

# **Applications**

WB,DB,IF/ICC,ELISA

### **Cross-Reactivity**

SARS-CoV-2

#### CloneNo number

AMC0346R

# **Background**

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

# **Recommended Dilutions**

**WB** 1:500 - 1:1000

**DB** 1:500 - 1:2000

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

# Immunogen Information

Gene ID Swiss Prot

43740568

#### **Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

## **Synonyms**

spike glycoprotein; SARS-CoV-2 Spike RBD

# **Contact**

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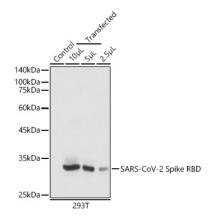
## **Product Information**

SourceIsotypePurificationMouseIgG2b,kappaAffinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of lysates from wild type (WT) and 293T cells transfected with SARS-CoV-2 Spike RBD using SARS-CoV-2 Spike RBD Mouse mAb (A23771) at 1:500 dilution.

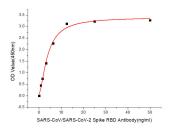
Secondary antibody:HRP Goat Anti-Mouse IgG (H+L)(AS003) at 1:10000 dilution.

Lysates/proteins:  $25~\mu g$  per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.



Immobilized Recombinant SARS-CoV-2 Spike RBD Protein (RP01278LQ) at  $1\mu g/mL$ (100µL/well) can bind SARS-CoV-2 Spike RBD mAb (A23771) with a linear range of 0.78-50ng/mL.