

## Rabies Virus Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 20501

**Format:** 200ug Protein G-purified antibody in PBS, pH 7.4, 0.09% sodium azide.

### BACKGROUND

Rabies is a zoonotic infectious disease of the central nervous system. In unvaccinated or untreated subjects, rabies virus infection causes severe neurological symptoms and is usually fatal. Rabies virus has a bullet-shaped, enveloped virion with a negative-sense single-stranded RNA genome that encodes five viral proteins: nucleoprotein, phosphoprotein, matrix protein, glycoprotein, and RNA-dependent RNA polymerase. The virus attaches to its cellular targets by the surface glycoprotein (RABV-G), rapidly gains access to peripheral nerves, and ultimately reaches the brain. Transport of the enveloped virus within nerve cells and neuronal transport vesicles impedes clearance by humoral or cellular immunity.

### SPECIFICATION SUMMARY

**Antigen:** Russian rabies vaccine strain Vnukovo-32.

**Host Species:** Mouse

**Clone No.:** 1C5

**Antibody Subtype:** IgG2a

**Specificity:** This antibody recognizes rabies virus glycoprotein (UniProtKB Q08089) and neutralizes the following strains of rabies virus: CVS, Flury Lep, Flury HEP, Mokola 1, Mokola 2, Lagos bat, Duvenhage, and field isolates.

### APPLICATIONS

*ELISA*

*Immunofluorescence*

*Immunohistochemistry* Customer confirmed that #20501 works on formalin-fixed tissues with protease pre-treatment.

*Immunoblotting* Customer confirmed that #20501 detects viral glycoprotein in Western blot.

Endusers should determine optimal antibody concentrations for their applications.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium that is compatible with the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at 4°C.