Ver. HB230112

# Anti-V5 Affinity Gel

## Product description

Anti-V5 Affinity Gel is prepared by conjugating high quality murine IgG2b monoclonal antibody with Sepharose 4B gel. This product has a high V5 label fusion protein loading capacity (at least 0.5 mg protein/mL gel) and less non-specific binding of miscellaneous proteins. It can be used for immunoprecipitation (IP) and purification of fusion proteins with V5 labels.

Recommended Dosage: 5 μL gel per 500 μL protein crude body fluid.

## Components

| Components No. | Name | 20588ES03 | 20588ES08 | 20588ES25 | 20588ES60 |
|---|---|---|---|---|---|
| 20588 | Anti-V5 Affinity Gel | 1 mL | 5 mL | 25 mL | 100 mL |

## Specifications

| | |
|---|---|
| Clone | 10B5 |
| Isotype | Mouse IgG1 |
| Purity | Protein A |
| Antibody Concentration | 7.5 g antibody/L Gel |
| Application | Protein purification、IP |
| Protein binding capacity | ⩾0.5 mg protein/mL Gel |
| Storage buffer | 10 mM $Na_3PO_4$,150,mM NaCl，50% glycerin，pH7.4，contains 0.02% (w/v) sodium azide |

## Storage

The unopened products should be stably stored at -25°C~ -15°C for 1 year. Do not freeze in solution without glycerin!

## Instructions

1. Fully re-suspension of Anti-V5 affinity purification gel to form a uniform solution as far as possible. Transfer 10 μL mixture (5 μL gel) to a new centrifuge tube.
2. Add 500 μL TBS, gently reinsert the Anti-V5 Affinity Gel, centrifuge at 5,000 rpm for 30 s, discard the supernatant, and repeat the above steps 3-4 times.

Note: Remove supernatant as much as possible, but do not inhale gel.

3. 200-1000 μL cell lysate was added to the above precipitation. Incubate slowly at 4°C for 2 hours.
4. Centrifuge at 5,000 rpm for 30 s and transfer the supernatant to a new centrifuge tube for storage for later detection.
5. Wash the precipitation with 0.5mL TBS for 3-4 times to complete the supernatant.
6. Elution: The specific elution conditions selected depend on the characteristics of the target protein or downstream application.

6.1 The V5 fusion protein was eluted with 100 µL V5 polypeptides (150 µg/mL) (Cat#20575ES), incubated slowly at 4°C for 30 min, centrifuged at 5,000 rpm for 30 s, and the supernatant was collected.

6.2 For SDS-PAGE electrophoresis, 10 µL 2× protein loading buffer was added and boiled for 5 min. Centrifuge at 5,000 rpm for 30 s and transfer supernatant carefully for SDS-PAGE detection. The SDS in the loading buffer will destroy the antibodies, so the affinity purification gel cannot be reused.

## Notes

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only.