



## Anti-Phenylalanine, Rabbit-Polyclonal Antibody

**Catalog No.** PG-10014

**Antigen species:** phenylalanine

**Host species:** Rabbit

**Quantity:** 100 $\mu$ g

**Reactivity:** phenylalanine

**Form:** Protein A affinity purified antibody

**Applications:** ELISA

### Target description

Phenylalanine is an essential amino acid and also important in several diseases, these diseases would influence many organs, such as liver, brain. In animal body, phenylalanine would convert to tyrosine to synthesis dopamine and neurotransmitter.

### Antigen

This polyclonal antibody was raised by immunizing rabbit with the phenylalanine-BSA.

### Application

The antibody titer is more than 10K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (WB) of recombinant protein, 1/100 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections or paraffin embedded sections.

### Related Products

1. Anti-Amyloid  $\beta$  (1-40), rabbit pAb (GB-10536)
2. Anti-Amyloid  $\beta$  (37-42), rabbit pAb (GB-10370)
3. Anti-human fibrinogen, rabbit pAb (PG-10006)
4. Anti-Troponin I (TNNI3), chicken pAb (PY-10206)
5. Anti-Troponin I (49-92), chicken pAb (PY-10269)

Ab dilution	Control	Purified-Ab
1:10,000	8.0	18.0
1:1,000	7.0	23.0
1:100	12.0	28.0
1:10	25.5	26.0
Titer		>10K

### ELISA protocol

Antigen is coated on EIA strips. PG-10014 is diluted in series as  $10^1 \sim 10^4$  folds and added in separate wells. Incubate antibody for 0.5 hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 405 nm. Amount of color is directly proportional to the amount of antibodies. Antibody is positive at >2 folds of ABS of control/Pre-Immune serum.

### Storage

It is supplied as protein A antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1 $\times$ PBS, 0.1%NaN<sub>3</sub>). Store at 4 $^{\circ}$ C for short-term application. For long-term storage, aliquot and store at -20 $^{\circ}$ C.

### References

1. Dwight E. Matthews An overview of phenylalanine and tyrosine kinetics in humans. *J. Nutr.* 137: 1549S-1555S
2. Shigeki Hirano, Kotaro Asanuma, Yilong Ma, Chengke Tang, Andrew Feigin, Vijay Dhawan, Maren Carbon, and David Eidelberg. Dissociation of metabolic and neurovascular responses to levodopa in the treatment of parkinson's disease. *J. Neurosci.* 28(16):4201- 4209

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