



## Anti-Enterovirus 71 VP1, Chicken-Polyclonal Antibody

**Catalog No.** PY-10306

**Antigen species:** Enterovirus 71

**Host species:** Chicken

**Quantity:** 100µg

**Reactivity:** Enterovirus 71

**Form:** Antigen affinity purified antibody

**Applications:** Western blot

### Target description

Enterovirus 71 (EV71) has been recognized as a frequent cause of epidemics of handfoot-and-mouth disease associated with severe neurological sequelae in a small proportion of cases. Phylogenetic analysis of the VP4 and VP1 genes of recent HEV71 strains indicates that several genogroups of the virus have been circulating in the Asia-Pacific region since 1997.

### Antigen

This polyclonal antibody was raised by immunizing chicken with Enterovirus 71, capsid protein VP1.

### Application

The antibody titer is more than 5000 for Western blotting. For the first testing, we recommend 1/3000 dilution for WB of recombinant protein, 1/100 dilution for tissue extracts or cell lysates, 1/100 dilution for immuno-histochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

### Related Products

1. Anti-EV71(VP1,VP2 mixture), Chicken-Poly (PY-10267).
2. Anti-EV71 whole virus, Chicken-Poly (PY-10300).
3. Anti-EV71 VP2, Chicken-Poly (PY-10307).
4. Anti-EV71 VP3, Chicken-Poly (PY-10308).

kDa

76 —

47 —

31 —

24 —

← EV71 VP1 fusion protein

400ng E coli-derived fusion protein as test antigen.

### Western blot Protocol

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 3,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1:10,000 for ECL (with 1% milk PBS-T) at R.T. for 1h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

### Storage

It is supplied as total IgY antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

### References

1. Brown, B.A., and Pallansch, M.A., Complete nucleotide sequence of enterovirus 71 is distinct from poliovirus. *Virus Res.* 39 (2-3), 195-205 (1995)
2. Molecular epidemiology of human enterovirus *Emerg Infect Dis.* 2003 Apr;9(4):461-8.

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