



## Anti- Human CD55(a.a.97-160), Chicken-Polyclonal Antibody

**Catalog No.** PY-10302

**Quantity:** 100µg

**Applications:** Western blot

**Antigen species:** Human

**Reactivity:** Human, Chimpanzee

**Host species:** Chicken

**Form:** Antigen affinity purified antibody

### Target description

Decay-accelerating factor is physiologically acting as an inhibitor of the complement system, but is also broadly expressed in malignant tumours. DAF seems to exert different functions beyond its immunological role such as e.g. promotion of tumorigenesis, decrease of complement mediated tumor cell lysis, autocrine loops for cell rescue and evasion of apoptosis, neoangiogenesis, invasiveness, cell motility, and metastasis via oncogenic tyrosine kinase pathways and specific seven-span transmembrane receptors (CD97) binding.

### Antigen

This polyclonal antibody was raised by immunizing chicken with fusion protein (97-160 amino acids).

### Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1: 3,000 (ECL method), for tissue or cell staining is 1: 200. Optimal working dilutions must be determined by the end user.

### Related Products

1. Anti-CD55(38-96), chicken pAb (PY-10280)

kDa

50 —

34 —

21 —

17 —

— ← CD55 fusion protein

### 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 1 h.
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 antigen affinity purified 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. Mikesch J.H., Schier K., Roetger A., Simon R., Buerger H., Brandt B. The expression and action of decay-accelerating factor (CD55) in human malignancies and cancer therapy. *Cell Oncol.* 2006;28(5-6):223-32.
2. Mikesch J.H., Buerger H., Simon R., Brandt B. Decay-accelerating factor (CD55): a versatile acting molecule in human malignancies. *Biochim Biophys Acta.* 2006 Aug;1766(1):42-52. Epub 2006 May 9.