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Anti-IgG Fc, Chicken-Polyclonal Antibody

Catalog No. PY-10127 **Quantity:** 100μg **Applications tested:** Western blot
Antigen species: Human **Reactivity:** Human, mouse, rat
Host species: Chicken **Form:** Antigen affinity purified antibody

Target description

The most abundant antibody class in the circulation. It easily passes through walls of blood vessels or the placental barrier and confers, by this, passive immunity from the mother to the embryo. IgG protects from bacteria, viruses and toxins in the lymphatic system and in the blood. In this case, the pathogen is marked on its surface through antibodies, which recognize their distinct structures with both "arms" of their Y-shaped structure. These arms are called Fab fragments (Fab=fragment antigen binding). Via Fc receptors (Fc=Fragment crystalline), which recognize a distinct structure in the "stem" region of the Y-shaped structure (Fc fragment), immune cells (leukocytes and lymphocytes) are bound. Only now the pathogen is removed when a macrophage engulfs and neutralizes it..

Antigen

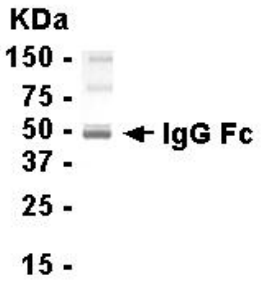
This polyclonal antibody was raised by immunizing chicken with Full-length plasma protein

Application

Western blotting, tissue or cell immunostaining, and ELISA. Recommended starting dilution for Western blot analysis is 1:2,000, for tissue or cell staining is 1:200. Optimal working dilutions must be determined by the end user.

Related Products

1. Anti- IgE, pAb (PY-10111)
2. Anti-IgA, pAb (PY-10126)
3. Anti-IgG mouse, pAb (PY-10128)
4. Anti-IgM human, pAb (PY-10130)
5. Anti-IgG mouse, pAb (PG-10011)
1. Anti-IgG human, pAb (PG-10012)



Human plasma 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: 2,000 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: 1,000 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. Prahl JW. Enzymic degradation of the Fc fragment of rabbit immunoglobulin IgG. *Biochem J.* 104(2):647-55(1967).
2. Frangione B, Milstein C, Franklin EC. Intrachain disulphide bridges in immunoglobulin G heavy chains. The Fc fragment. *Biochem J.* 106(1):15-21(1968).
3. Alepa FP. Antigenic factors characteristic of human immunoglobulin G, detected in the sera of non-human primates. *Primates Med.* 1(0): 1-9(1968).