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Anti-Eukaryotic translation initiation factor 3 subunit 12(eIF3k, HSPC029), Chicken-Polyclonal Antibody

Catalog No. PY-10244 **Quantity:** 100μg **Applications:** Western blot, IHC
Antigen species: Human **Reactivity:** Human, chimpanzee
Host species: Chicken **Form:** Antigen affinity purified antibody

Target description

Mammalian translation initiation factor 3 (eIF3) is a multisubunit complex containing at least 12 subunits with an apparent aggregate mass of approximately 700kDa. eIF3k, the smallest subunit of eukaryotic initiation factor 3 (eIF3), interacts with several other subunits of eIF3 and the 40 S ribosomal subunit. eIF3k is conserved among high eukaryotes, including mammals, insects, and plants, and it is ubiquitously expressed in human tissues.

Antigen

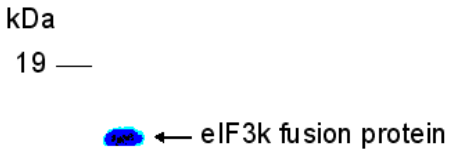
This polyclonal antibody was raised by immunizing chicken with eIF3K fusion protein (53-95 amino acids).

Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1:3000(ECL method), for tissue or cell staining is 1:500.

Related Products

1. Anti-Amyloid β (1-40), rabbit pAb (GB-10536)
2. Anti-Amyloid β (37-42), rabbit pAb (GB-10370)
3. Anti-human fibrinogen , rabbit pAb (PG-10006)
4. Anti-Taxol , rabbit pAb (PG-10007)
5. Anti-Troponin I (TNNI3), chicken pAb (PY-10206)

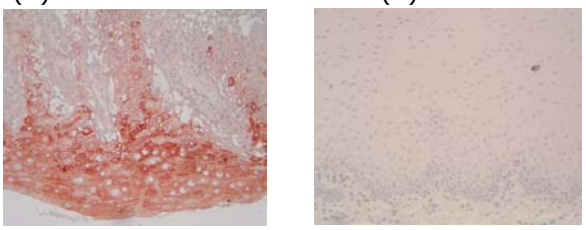


Western blot Protocol

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.

DAB method Tissue staining:

(A) (B)



(A) Oral cancer epithelium, eIF3k (1: 500)
(B) Oral epithelium, negative control

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、 Wei, Z., Zhang, P., Zhou, Z., Cheng, Z., Wan, M., Gong, W. Crystal structure of human eIF3k, the first structure of eIF3 subunits. *J Biol Chem.* 2004 Aug 13; 279(33):34983-90. Epub 2004 Jun 4.

2、 Mayeur, G.L., Fraser, C.S., Peiretti, F., Block, K.L., Hershey, J.W. Characterization of eIF3k: a newly discovered subunit of mammalian translation initiation factor eIF3. *Eur J Biochem.* 2003 Oct; 270(20):4133-9.