

Anti-Chicken IgY, AlpSdAbs[®] VHH(iFluor594 ×4)

Summary

Code	024-101-008
Immunogen	Recombinant Fc region of chicken IgY
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	iFluor594(Ex: 590nm, Em: 617nm)
Specificity	Fc region of chicken IgY
Cross-Reactivity	No cross-reactivity with mouse, rabbit, human, cynomolgus, rat, goat IgG
Purity	Recombinant Expression and Affinity purified
Concentration	1mg/ml
Formation	Liquid, 10mM PBS(pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol
Storage	Store at -20 °C(Avoid freeze / thaw cycles), protect from light

Description

Anti-Chicken IgY, AlpSdAbs[®] VHH(iFluor594 ×4) is designed for detecting chicken IgY specifically. Anti-Chicken IgY, AlpSdAbs[®] VHH(iFluor594 ×4) is based on monovalent, recombinant single domain antibodies to chicken IgY coupled to iFluor594. Based on immunoelectrophoresis and/or ELISA, Anti-Chicken IgY, AlpSdAbs[®] VHH(iFluor594 ×4) detects the chicken IgY selectively, no reactivity with mouse, rabbit, human, cynomolgus, rat, goat IgG.

Background

Hens egg yolk immunoglobulins IgY can be transferred from the serum of mother hen to the offspring egg yolk to acquire immunity. In the immunodiagnostic technologies, IgY is an excellent antibody for using in immunological assays involving mammalian sera, due to discriminative properties of IgY compared to mammalian IgG, as IgY does not react with the rheumatoid factor and human anti-mouse IgG antibodies do not activate the complement system and do not bind to Fc receptor. Also, they have poor cross reactivity to mammalian IgG due to immunological differences. IgY does not contain a hinge region but does contain an additional constant domain. The whole IgY molecule possesses both the Fc region and the Fab region, which possessing the epitope-recognition site. The IgYcontains two heavy and light chains. The common IgY is monomeric with a molecular weight of approximately 170 kDa.

VHH are single-domain antibodies derived from the variable regions of heavy chain of Camelidae immunoglobulin. The size of VHH is extremely small(<15KDa) compared to other forms of antibody fragment, which significantly increase the permeability of VHH. Thus VHH is considered of great value for research, diagnostics and therapeutics.

Benefits

High lot-to-lot consistency Increased sensitivity and higher affinity Animal-free production

Application notes

ELISA	1:10000-1:50000	
WB	1:10000-1:50000	
Flow Cyt	1:100-1:1000	
ICC/IF	1:100-1:1000	
Super-resolution microscopy		

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.

This product is for research use only and is not approved for use in humans or in clinical