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Datasheet for ABIN5706892

Rabbit anti-Llama IgG2 Antibody

Overview

Quantity:	0.5 mg
Target:	IgG2
Reactivity:	Llama
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Llama IgG2 Immunogen Type: Native Protein
Isotype:	IgG
Characteristics:	Synonyms: IgG2 antibody, Llama IgG2, anti-subclass secondary antibody Background: Camelids produce functional IgG isotypes that do not incorporate light chains. Comparative studies of old world camelids (<i>Camelus bactrianus</i> and <i>Camelus dromedarius</i>) and new world camelids (<i>Lama pacos</i> , <i>Lama glama</i> and <i>Lama vicugna</i>) have shown that heavy-chain-only immunoglobulins represent between 35 % - 70 % of total IgG in the sera of all species. At present, three subclasses of camelid IgG have been identified (IgG1, IgG2, IgG3), of which IgG2 and IgG3 lack the light chains. IgG2 consists of dimers of short heavy chains, which are characterized by a normal Fc region without a CH1 domain. IgG2 shows a molecular weight of approximately 90 kDa and this smaller size improves its bio-distribution and allows a better tissue penetration. Of special importance is the long complementary determining region (CDR) loop which inserts deep into the active site of an enzyme enabling a complete neutralization of

Product Details

an enzyme. Anti-Llama IgG2 generated in rabbit detects specifically Llama IgG2 isotype. This anti-Llama secondary Antibody is suitable for western blot, ELISA, ChIP and immunohistochemistry as well as other more general immunoassays.

Purification: Anti-Llama IgG2 antibody is directed against Llama IgG2a, IgG2b, and IgG2c isotypes with minimal cross-reactivity to Llama IgG3 and Llama IgG1. Anti-Llama IgG2 antibody was prepared from monospecific antiserum by immunoaffinity chromatography. Assay by immunoelectrophoresis resulted in a single precipitin arc against Llama IgG2 and Llama Serum. No reaction was observed against Llama IgG1, and Llama IgG3. This antibody does not recognize recombinant VHH with IgG3 background.

Target Details

Target: IgG2

Abstract: [IgG2 Products](#)

Target Type: Antibody

Application Details

Application Notes: Immunohistochemistry Dilution: User Optimized
Application Note: Antibody Anti-Llama IgG2 is suitable for immunoblotting (western or dot blot), ELISA, and immunohistochemistry assays requiring lot-to-lot consistency.
Western Blot Dilution: 1:10,000-1:50,000
ELISA Dilution: 1:60,000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: None

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: 4 °C,-20 °C

Expiry Date: 12 months