

Datasheet for ABIN5706889

Rabbit anti-Llama IgG1 Antibody



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Overview

Quantity:	0.5 mg
Target:	IgG1
Reactivity:	Llama
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	Immunogen: Llama IgG1 Immunogen Type: Native Protein
Isotype:	IgG1
Characteristics:	<p>Synonyms: IgG1 antibody, Llama IgG1, anti-subclass secondary antibody</p> <p>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. IgG1 binds strongly to protein A and G, is composed of conventional antibodies, and totals 25 % of serum IgG. Llama IgG1 antibodies migrate as a 150- kDa protein in SDS-polyacrylamide gel under non-reducing conditions. Under reducing conditions, IgG1 antibodies split into four proteins (two of each H- and L-chains), which gives protein bands of about 52-55 kDa (H-chain) and about 27 kDa (L-chain). Anti-Llama IgG1</p>

Product Details

generated in rabbit detects specifically the Llama IgG1 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 IgG1 antibody is directed against Llama IgG1 isotype with minimal cross-reactivity to Llama IgG2 and Llama IgG3. Anti-Llama IgG1 antibody was prepared from monospecific antiserum by immunoaffinity chromatography. Assay by immunoelectrophoresis resulted in a single precipitin arc against Llama IgG1 and Llama Serum. No reaction was observed against Llama IgG2 and Llama IgG3. This antibody does not recognize recombinant VHH with IgG3 background.

Target Details

Target: IgG1

Abstract: [IgG1 Products](#)

Target Type: Antibody

Application Details

Application Notes: Application Note: Antibody Anti-Llama IgG1 is suitable for immunoblotting (western or dot blot), ELISA, and immunohistochemistry assays requiring lot-to-lot consistency.
Western Blot Dilution: 1:20,000 or 1:40,000
Immunoprecipitation Dilution: User Optimized
ELISA Dilution: 1 µg/mL

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