

Llama IgG1 Rabbit Polyclonal
ATS-SELECT SECONDARY ANTIBODY

Catalog Number: AS-315
Quantity: 500 micrograms
Format: IgG1, Liquid (sterile filtered)
Host: Rabbit
Immunogen: Llama IgG1

Background: Camelids produce functional IgG isotypes that do not incorporate light chains. Comparative studies of old world camelids (*Camelus bactrianus* and *Camelus dromedarius*) and new world camelids (*Lama pacos*, *Lama glama* and *Lama vicugna*) 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 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.

Specificity & Preparation: 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 anti-rabbit serum, Llama IgG1 and Llama Serum. No reaction was observed against Llama IgG2 and Llama IgG3. Specificity was confirmed by ELISA. For IgG2 and IgG3 reactivity was less than 5% against target (IgG3). This antibody does not recognize recombinant VHH with IgG3 background.

Usage: Antibody Anti-Llama IgG1 has been tested by ELISA, dot blot, and western blot and is suitable for IEP, immunoblotting (western or dot blot), ELISA, and immunohistochemistry assays requiring lot-to-lot consistency.

ELISA 1 ug/ml

Immunoprecipitation User Optimized

Western Blot 1:20,000 or 1:40,000

Working dilutions must be determined by end user.

Storage: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. Expiration date is one (1) year from date of receipt.

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