

**VHH Rabbit Polyclonal**  
ATS-SELECT SECONDARY ANTIBODY

**Catalog Number:** AS-070  
**Quantity:** 100 micrograms  
**Format:** IgG, Liquid (sterile filtered)  
**Host:** Rabbit  
**Immunogen:** This antibody was prepared from whole rabbit serum produced by repeated immunizations with a VHH camelid domain protein.

**Background:** Rabbit Anti-VHH antibody can be used to detect single domain VHH antibodies. The single-domain antibody (sdAb) is a small (12 - 14 kDa) antibody fragment that consists of a monomeric variable domain derived from the heavy chain, also called a VHH antibody. These heavy chain only Fab-like domains have activity that is similar to a whole antibody, and they are able to bind to a specific antigens. SdAb's are derived from camelid species that include llamas, alpacas and camels. Camelids produce both classical (containing heavy and light chain fragments) and non-classical antibody structures (containing only a heavy chain). VHH antibodies are the smallest functional antigen-binding fragment that occurs in nature and these are now being used in biotechnology as a novel antibody scaffold. The small size of the VHH single domain antibody makes it very attractive for use in diagnostic imaging and they have potential for therapeutic activity.

**Specificity & Preparation:** Anti-VHH is directed against the llama VHH protein fragment. The product was purified from monospecific antiserum by protein A chromatography. Anti-VHH antibody detects recombinant VHH proteins, native Llama IgG2 and native Llama IgG3.

**Usage:** Anti-VHH antibody has been tested by ELISA and Western blot. Specific conditions for reactivity should be optimized by the end user. Some cross-reactivity to E.coli proteins may be observed.

ELISA 1:10,000-1:50,000

Western Blot 1:1,000-1:5,000

Working dilutions must be determined by end user.

**Storage:** Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of receipt.

*To view protocol(s) for this and other products please visit: [www.ATSBio.com/library/protocols](http://www.ATSBio.com/library/protocols)*