

Rev04  
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**DATASHEET**

# MonoRab™ Rabbit Anti-Humanized VHH Antibody, mAb

Cat. No.: A02165

## Overview

<b>Specificity</b>	The product is specific for Humanized VHH antibodies and Camelid (Llama, Alpaca, and Camel) heavy chain antibodies (IgG2 & 3), but does not recognize the camelid conventional antibody (IgG1).
<b>Host Species</b>	Rabbit
<b>Immunogen</b>	VHH antibody
<b>Species Reactivity</b>	No cross-reactivity with mouse, rat, rabbit, or goat immunoglobulins.
<b>Conjugate</b>	Unconjugated

## Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

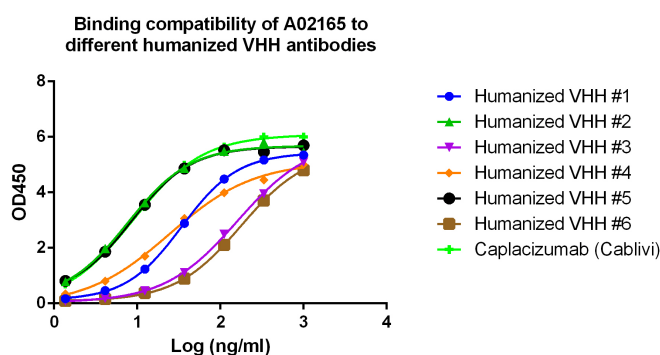
<b>Application</b>	<b>Recommended Usage</b>
ELISA	1:5,000-1:10,000
Western Blot	1:1,000-1:5,000
Flow Cytometry	1:100-1:1,000

## Properties

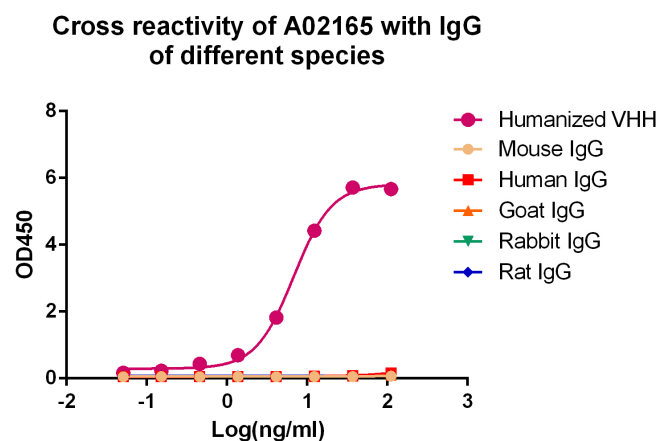
<b>Form</b>	Liquid
<b>Storage Buffer</b>	Supplied in PBS (pH 7.2) with 0.02% sodium azide and 50% glycerol.
<b>Concentration</b>	0.5 mg/mL

<b>Storage Instructions</b>	Store at -20°C. This product is stable for 1 year upon receipt, when handled and stored as instructed.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	45H8
<b>Note</b>	GenScript can customize this product per customer's request including product size, buffer components, etc.

## Examples



**Figure 1.** The affinity of MonoRab™ Rabbit Anti-Humanized VHH Antibody, mAb with different humanized VHHs was tested using ELISA. The coating antigens in separate ELISA assays were Humanized VHHs at 1 µg/mL concentration. The primary antibody was MonoRab™ Rabbit Anti-Humanized VHH Antibody, mAb (GenScript, A02165) used at dilutions starting from 1 µg/mL concentration. The secondary antibody was Mouse Anti-Rabbit IgG Fc Antibody (14H9H10)[HRP], mAb (GenScript, A01856), at 1:20,000 concentration.



**Figure 2.** MonoRab™ Rabbit Anti-Humanized VHH Antibody, mAb (GenScript, A02165) is specific to Humanized VHH and has no cross-reactivity with mouse, rat, rabbit, goat and human immunoglobulins.

## Background

**Target Background :** A camelid single-domain antibody (sdAb, called Nanobody by Ablynx) is a peptide chain about 110 amino acids long comprising one variable domain of a heavy-chain antibody (VHH fragment). Like a whole antibody, a single-domain antibody is able to bind selectively to a specific antigen. Such antibodies allow a broad range of applications in biotechnical as well as therapeutic fields due to their small size, simple production, and high affinity. However, their sequences may increase the risk of immunogenicity and cause anti-drug antibody (ADA) development in humans, and thus, sdAbs are routinely humanized during development.

**Synonyms :** Rabbit anti-Humanized VHH, single-domain antibody monoclonal antibody (Min X Ms, Rt, Rb, Gt).

**Reference :** 1. [Immunogenicity and humanization of single-domain antibodies.](#)  
2. [Properties, production, and applications of camelid single-domain antibody fragments.](#)

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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