Rev06
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DATASHEET

MonoRab™ Rabbit Anti-Humanized VHH Antibody [iFluor 647], mAb

Cat. No.: A02170

Overview

Specificity	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).
Host Species	Rabbit
Immunogen	VHH antibody
Species Reactivity	It has no cross-reactivity with mouse, rat, rabbit, or goat immunoglobulins.
Conjugate	iFluor 647

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.

Application	Recommended Usage
Flow Cytometry	1:100-1:1,000

Properties

Form	Liquid
Storage Buffer	Supplied in PBS (pH 7.2), containing 10 mg/ml BSA, 0.02% sodium azide and 50% glycerol.
Concentration	0.5 mg/ml
Storage Instructions	Store at -20°C. This product is stable for 1 year upon receipt, when handled and stored as instructed.
Purification	Protein A affinity column
Isotype	Rabbit IgG

Clonality	Monoclonal
Clone ID	45H8
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

Background

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

Synonyms : iFluor 647 conjugated 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.

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