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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-BDE-47 [7] Standard Size Ab03164-1.159

Isotype and Format:**Clone Number:** 7**Alternative Name(s) of Target:** 2,2',4,4'-tetra-bromodiphenyl ether; 4-Bromophenyl phenyl ether; CAS number: 101-55-3**UniProt Accession Number of Target Protein:****Published Application(s):** ELISA**Published Species Reactivity:** Species independent**Immunogen:** The original antibody was generated by immunizing an alpaca with a surrogate of BDE-47 covalently attached to a carrier protein. The resulting mRNA coding for the variable domain of heavy-chain antibodies were isolated, transcribed to cDNA, and cloned into a phagemid vector for phage display library construction. Selection of VHHs recognizing BDE-47 was achieved by panning under carefully modified conditions.**Specificity:** The antibody is specific for BDE-47 and it does not cross react with BDE-153, BDE-154, BDE-183, triclocarbon and TBBPA. BDE-47 is a polybrominated diphenyl ether which has been used as flame retardant.**Application Notes:** The specificity of the VHH fragment was confirmed by cELISA analysis. The VHH fragment showed increased thermal stability compared to polyclonal antibodies. The VHH antibody was immobilized onto an Au electrode and used for impedance biosensing, showing a detection limit for BDE-47 of approximately 0.79 µg/L (Bever et al., 2014; PMID: 25005746).**Antibody First Published in:** Bever et al. Development and utilization of camelid VHH antibodies from alpaca for 2,2',4,4'-tetrabrominated diphenyl ether detection Anal Chem. 2014 Aug 5;86(15):7875-82.[PMID:25005746](#)**Note on publication:** The paper describes the generation and characterization of the antibody, which is used for BDE-47 monitoring.

Product Form

Size: 100 µg Purified antibody.**Purification:** Purified by Immobilized Metal Affinity Chromatography**Supplied In:** PBS with 0.02% Proclin 300.**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.