

Product Datasheet

Digoxigenin Antibody (DIG45) - VHH - BSA Free NBP3-06992

Unit Size: 50 ug

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NBP3-06992

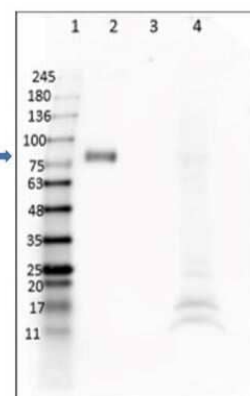
Digoxigenin Antibody (DIG45) - VHH - BSA Free

Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	DIG45
Preservative	0.01% Sodium Azide
Purity	Affinity purified
Buffer	1X PBS, pH 7.4, 20% (v/v) Glycerol
Product Description	
Description	Digoxigenin Antibody (DIG45) is a recombinant antibody. The clone was isolated from a library prepared from a hyper-immunized llama host and purified by affinity chromatography from bacterial culture. Store at -20C prior to opening. Aliquot contents and freeze at -20C 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 4C as an undiluted liquid. Dilute only prior to immediate use. The clone was isolated from a library prepared from a hyper-immunized llama host and purified by affinity chromatography from bacterial culture
Host	Llama
Species	Plant
Reactivity Notes	Digitalis sp.
Specificity/Sensitivity	Expect reactivity against DIG-labeled probes and proteins.
Immunogen	Digoxigenin
Product Application Details	
Applications	Western Blot, ELISA, SDS-Page
Recommended Dilutions	Western Blot 1:1000, ELISA 1:2000, SDS-Page
Application Notes	This product is a his-tagged monoclonal recombinant antibody designed to detect digoxigenin and its conjugates. This antibody has been tested by ELISA, SDS-PAGE, and western blot and is intended for use in immunological assays including ELISA, western blotting, immunofluorescence and fluorescence activated cell sorting (FACS). Fluorochrome conjugated anti-DIG can be used for detection of sensitive non-radioactive in situ hybridization probes. The antibody can be labeled with dyes, enzymes or fluorescence, directly or secondarily, for visualization and detection of DIG-conjugated molecules by immunoblotting or immunofluorescence. Secondary detection can be achieved using conjugated anti-His tag or anti-VHH antibodies. Optimal titers for applications should be confirmed by the end user.

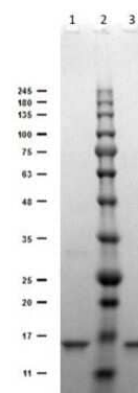


Images

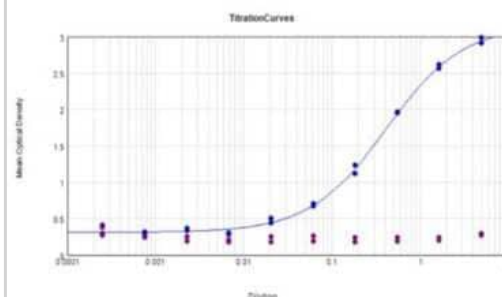
Western Blot: Digoxigenin Antibody (DIG45) - VHH [NBP3-06992] - Western Blot of Digoxigenin Antibody (DIG45). Lane 1: Opal Prestained Molecular Weight Marker (5uL). Lane 2: DIG-BSA conjugated (0.2ug). Lane 3: BSA only (0.2ug). Lane 4: HEK293T lysate (20ug). Primary Antibody: Anti-DIG (VhH) at 1ug/mL incubated overnight at 4 degrees C. Secondary Antibody: Mouse Anti-6X HIS at 1:1000 incubated for 1hr at RT. Blocking buffer: Universal Buffer for 2hrs at RT. Expected MW: ~80kDa in DIG+BSA. Observed MW: ~80kDa in DIG+BSA (arrow); secondary background seen in current tested lot of HEK293T Lysate.



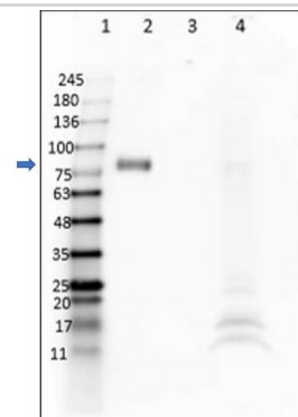
SDS-Page: Digoxigenin Antibody (DIG45) - VHH [NBP3-06992] - SDS-PAGE Results of Recombinant Digoxigenin Antibody (DIG45). Lane 1: Anti-DIG-VhH (Clone DIG45) Reduced (1ug). Lane 2: Opal Prestained Molecular Weight Marker. Lane 3: Anti-DIG-VhH (Clone DIG45) Non-Reduced (1ug). 4-20% Gel Coomassie Blue stained. Observed MW: ~16kDa.



ELISA: Digoxigenin Antibody (DIG45) - VHH [NBP3-06992] - ELISA Results of purified recombinant Digoxigenin Antibody (DIG45) reactive against BSA-conjugated DIG. The working dilution for clone DIG45 is 1:2000. Each well was coated in duplicate with 1.0ug of BSA conjugated DIG (Blue) and BSA only (Purple). The starting dilution of antibody was 45ug/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Sodium Carbonate blocking buffer, Mouse Anti-6X HIS Epitope Tag HRP conjugated Antibody and TMB substrate.



Western Blot of Anti-DIG Single Domain Antibody. Lane 1: Opal Prestained Molecular Weight Marker





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Products Related to NBP3-06992

AF011-500	Goat anti-Llama IgG Secondary Antibody [Unconjugated]
NB7240	Goat anti- Alpaca, Llama IgG (H+L) Secondary Antibody

Limitations

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