



Rabbit Anti-DHAV3 VP1 Polyclonal Antibody (CABT-YN1024)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	DHAV3
Target	DHAV3 VP1
Immunogen	KLH conjugated synthetic peptide derived from Duck Hepatitis Virus VP1: 21-120/240.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	DHAV3
Conjugate	unconjugated
Applications	ELISA, ICC, IF, IHC-P, WB
Format	Liquid
Size	50 µl, 100 µl, 200 µl
Storage	Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

BACKGROUND

Introduction	Duck hepatitis A virus (DHAV) belongs to the genus Avihepatovirus in the Picornaviridae family. As the only species in its genus, DHAV consists of three distinctive serotypes, designated DHAV-1, DHAV-2 and DHAV-3. This group of viruses can cause an acute, contagious, fatal liver disease of young ducklings (<6 weeks of age) with morbidity and mortality rates approaching 100% and 80%, respectively. Among the three serotypes, DHAV-1 is the most
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widespread and virulent serotype that has the most significant impact on the worldwide poultry industry, while DHAV-2 and DHAV-3 have only been reported in the Taiwan and the USA and the southeastern Asia.

As with other picornaviruses, DHAV is a single-stranded, positive-sense RNA virus. The viral genome is about 7.7kb long, packaged by a protein capsid. The capsid consists of four different structural proteins (VP1-4) and the assembled virion structure has 60 copies of capsid protein; VP1, VP2, and VP3 proteins are exposed on the surface, while VP4 protein is entirely internal. Structural and antigenic studies have shown that VP1 and to some extent VP3 or VP2, are the target for neutralizing antibodies. Genetic changes in these regions frequently alter viral antigenic properties, which make viruses escape immunological recognition by neutralizing antibodies and as a result lead to the failure of picornavirus vaccines.

Keywords

Duck Hepatitis Virus; DHV; Hepatitis Virus; VP1; DHV VP1; Duck Hepatitis Virus VP1; Duck hepatitis A virus VP1; DHAV; DHAV VP1; capsid protein; DHAV capsid protein; DHAV capsid protein; Duck hepatitis A virus; Polypeptide VP1; Duck hepatitis A virus 3; DHAV3; DHAV3 VP1; DHAV3 Polypeptide VP1; Duck Hepatitis A Virus; Duck Hepatitis A Virus capsid protein; Duck Hepatitis A Virus capsid protein VP1;
