

Recombinant ASFV CP204L Protein

Cat. No. CP204L-02A Lot. No. (See product label)

SPECIFICATION

Product Overview	African Swine Fever virus CP204L is a recombinant protein expressed and purified from insect cells. Protein is suitable for use in immunoassay development and other applications.
Species	ASFV
Source	Insect Cells
Description	African swine fever virus (ASFV) is a large, double-stranded DNA virus and the sole member of the Asfarviridae family. ASFV infects domestic pigs, wild boars, warthogs, and bush pigs, as well as soft ticks (<i>Ornithodoros erraticus</i>), which likely act as a vector. The ASFV genome (170 to 193 kbp depending on isolate) encodes 150 to 200 proteins, of which ~50 of them are structural. These proteins include pp220, pp62, p72, p54, p30, and CD2v, and serve as the major component of virus particles with roles in attachment, entry, and replication (Jia et al., 2017). Outbreaks have been reported in Africa and parts of Europe, South America, and the Caribbean. More recently (since 2007) the disease has been reported in multiple countries across Africa, Asia and Europe, in both domestic and wild pigs (OIE, 2018). There is currently no approved vaccine for ASF. P30 is a 30-kDa phosphoprotein of ASFV that is synthesized, membrane localized, and released into the culture medium at early times after infection. Sequence analysis of the p30 open reading frame predicts a highly antigenic protein with putative phosphorylation, glycosylation, and membrane attachment sites (Afonso et al., 1992). Among the structural proteins that compose the virion of ASFV, p30 is one of the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

most immunogenic proteins and being produced during early stage of ASFV infection makes it a good target for diagnostic assays to detect ASFV infection (Petrovan et al. 2019).

Form	Liquid
Purity	greater than 85% pure by SDS-PAGE.
Applications	Suitable for use in immunoassay development or other applications.
Stability	General Storage Conditions, Avoid multiple freeze/thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	Presented in phosphate buffered saline (PBS), pH 7.4, with 0.05% NaN ₃ .
Shipping	Dry ice

GENE INFORMATION

Gene Name	CP204L ASFV-induced protein p32 [African swine fever virus]
Official Symbol	CP204L
Synonyms	CP204L; ASFV-induced protein p32; ASFV-induced protein p32; serine phosphorylated; protein size varies in different isolates; associates in hexameric homo-oligomers; gene starts at 2nd ATG codon of ORF (CP196L); glutamic acid-rich; gene expression: early; protein synthesis: early
Gene ID	22220322

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Protein Refseq	NP_042786
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UniProt ID	P34204
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