ASFV p30, GFP/His-tag

Mammalian

Cat. no. P2020-120

Product Information

Protein:	ASFV p30, GFP/His-tag (~ 41.2 kDa)
Uniprot#:	B9UNA3
Sequence:	MILHVLFEEETESSASSENIHEKNDNETNECTSSFETLFEQEPSSEVPKDSKLYMLAQKT VQHIEQYGKAPDFNKVIRAHNFIQTIYGTPLKEEEKEVVRLMVIKLLKKK Methionine at pos. 1 present due to cloning constraints, C-terminal GFP-fusion and His-tag not shown in sequence.
Source:	Recombinantly expressed in HEK293 cells.
Tag(s):	GFP/His-tag, C-terminal
Purification:	Purified by affinity chromatography and subsequent buffer exchange.
Formulation:	PBS; pH 7.4. Liquid, stored and shipped at -80 °C.
Purity:	> 95 % (will be determined by densitometry of Coomassie stained gel, example next page)
Concentration:	Will be determined by BCA-Assay.
Long-term storage:	No recommendations.
Comment:	Protein migrates at higher molecular weight during SDS-PAGE due to posttranslational modifications.

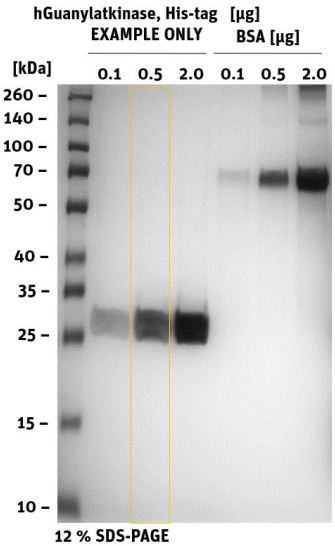
Background Information:

The african swine fever virus (ASFV) is a large (approx. 200 nm) enveloped virus with an icosahedral capsid and two membranes at its inner and outer sides belonging to the Asfarviridae family. It is the only known virus with double-stranded DNA genome to be transmitted by arthropods. The virus causes a haemorrhagic fever with high mortality rates in domestic pigs known as African swine fever (ASF). Some isolates can cause death of animals very quickly within a few days after infection. It persistently infects its natural hosts like warthogs, bushpigs and soft ticks of the genus Ornithodoros. These animals most likely act as a vector showing no disease signs. ASFV does not cause disease in humans. The virus replicates in the cytoplasm of infected cells and mainly targets myeloid lineage cells, especially monocyte/macrophages and dendritic cells .
The outbreak of African Swine Fever Virus has recently devastated the Chinese pork industry and resulted in over 300,000 pigs being culled. The virus is continuing to spread across Asia with new outbreaks in South Korea, Philippines, Vietnam, Laos and Cambodia. Currently no vaccine is available against ASFV.

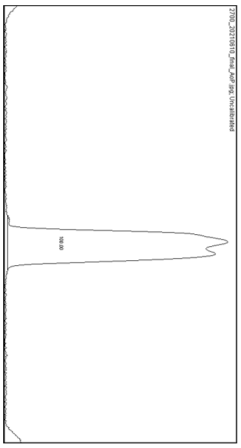
In the natural host, the ASVF p30 protein (CP204L) is a 30-kDa phosphoprotein localized in the membrane and also secreted by cells. The relevant parts of this very immunogenic protein is produced by use of a mammalian expression system and purified by chromatographic methods.

Product Information

Quality Information (provided for each lot):



SDS-PAGE/Coll.Coomassie



	Area	Percent
1	24597.882	100

Histogram (of marked lane in gel picture)