Recombinant Human immunodeficiency virus type 2 subtype A Protein Vpx(vpx)

Catalog No: #AP71028

Package Size: #AP71028-1 20ug #AP71028-2 100ug #AP71028-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Human immunodeficiency virus type 2 subtype A Protein Vpx(vpx)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-113aaSequence Info:Full Length
Other Names	Viral protein XX ORF protein
Accession No.	P18099
Calculated MW	17.2 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MTDPRERVPPGNSGEETIGEAFEWLERTIEALNREAVNHLPRELIFQVWQRSWRYWHDEQGMSASYTKYRY LCLMQKAIFTHFKRGCTCWGEDMGREGLEDQGPPPPPPPGLV
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Plays a role in nuclear translocation of the viral pre-integration complex (PIC), thus is required for the virus to infect non-dividing cells. Targets specific host proteins for degradation by the 26S proteasome. Acts by associating with the cellular CUL4A-DDB1 E3 ligase complex through direct interaction with host VPRPB,DCAF-1. This change in the E3 ligase substrate specificity results in the degradation of host SAMHD1. In turn, SAMHD1 depletion allows viral replication in host myeloid cells by preventing SAMHD1-mediated hydrolysis of intracellular dNTPs necessary for reverse transcription.

References

The Vpx lentiviral accessory protein targets SAMHD1 for degradation in the nucleus.Hofmann H., Logue E.C., Bloch N., Daddacha W., Polsky S.B., Schultz M.L., Kim B., Landau N.R.J. Virol. 86:12552-12560(2012) Research Topic:Others