Viral Protein R (Vpr), an accessory gene of human immunodeficiency virus type 1 (HIV-1), encodes a virion-associated nuclear protein with a variety of biological functions. Forced expression of Vpr induces cell cycle abnormalities at the G2/M phase, apoptosis and nuclear transportation of the pre-integration complex. Vpr is a transacting factor, and exogenously added Vpr can also induce apoptosis. It has been reported that Vpr is present in blood and cerebrospinal fluids of HIV-1 positive patients and also proposed that Vpr is linked with functional abnormality of central nervous system of the patients.

**Product type** Primary antibodies

**Immunogen** Vpr peptide

**Rased in** Mouse

**Myeloma** P3U1

**Clone number** 8D1

**Isotype** IgG2a, k

**Host** -

**Source** Serum free culture supernatant

**Purification** Protein G

**Buffer** PBS containing 0.02% NaN₃ as a preservative

**Concentration** 1 mg / mL

**Volume** 50 uL/ 100 uL

**Label** Unlabeled

**Specificity** Vpr

**Cross reactivity** -

**Storage** Store below -20°C (below -70°C for prolonged storage) Aliquot to avoid cycles of freeze/thaw.

**Other** Data Link : UniProtKB/Swiss-Prot G9E2V1

**Application notes**

- **Western blotting:** 1/200 - 1/100 (Ref.1, Fig. 1)
- **Fluorescence - activated cell sorter:** 1/500 (Ref. 6)
- **Immunoprecipitation:** 5 ug/Vpr 20 ng

Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

**References**

1) Daiki Taneichi, et al. Identification of SNF2h, a Chromatin-Remodeling Factor, as a Novel Binding Protein of Vpr of Human Immunodeficiency Virus Type 1 J Neuroimmune Pharmacol (2011) 6:177-187 PMID: 21519849


**Fig. 1** Western blotting with 8D1 antibody using whole cell extracts of Chromatin fraction. Chromatin fraction was prepared from HEK293T cells to which pCMV-Vpr with control and SNF2h siRNAs were transfected. (Ref. 1 Fig. 3)

**Fig. 2** Detection (or IP-WB analysis) of Vpr in plasma of HIV-1-positive patients. A definite signal of the 14-kDa protein was observed in patients #006 and #011 (Ref. 5 Fig. 1)

**Fig. 3** LPS-free Vpr protein purification using a glutathione column and an affinity column with anti-Vpr antibody (8D1) (Ref. 4 Fig. 1)
**RELATED PRODUCTS:**

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<th>Maker</th>
<th>Product Name</th>
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*For research use only. Not for clinical diagnosis.*

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