

# Search Antibody Database

Found 1 matching record:

## Displaying record number 1007

|                              |   |                             |
|------------------------------|---|-----------------------------|
| <a href="#">MAB ID</a>       | AE6   |                             |
| <a href="#">HXB2</a>         | Nef(194-206)  | <a href="#">Nef Epitope</a> |
| <a href="#">Location</a>     | DNA(9376..9414)   | <a href="#">Map</a>         |
| <a href="#">Author</a>       |   |                             |
| <a href="#">Location</a>     | Nef( LAI)   |                             |
| <a href="#">Research</a>     | Frank Jirik, Centre for Molecular Med and Therapeutics, U. B. |                             |
| <a href="#">Contact</a>      | C., Vancouver, B. C. Canada                                   |                             |
|                              |   | <a href="#">Epitope</a>     |
| <a href="#">Epitope</a>      | VARELHPEYFKNC   | <a href="#">Alignment</a>   |
| <a href="#">Subtype</a>      | B   |                             |
| <a href="#">Ab Type</a>      | C-term  |                             |
| <a href="#">Neutralizing</a> |   |                             |
| <a href="#">Species</a>      |   |                             |
| <a href="#">(Isotype)</a>    | mouse(IgG1κ)  |                             |
| <a href="#">Patient</a>      |   |                             |
| <a href="#">Immunogen</a>    | vaccine   |                             |
| <a href="#">Keywords</a>     |   |                             |

## Vaccine Details

|                                   |         |
|-----------------------------------|---------|
| <a href="#">Vaccine type</a>      | protein |
| <a href="#">Vaccine component</a> | Nef     |

## Notes

Showing 3 of 3 notes.

- AE6 database note: NIH AIDS Research and Reference Reagent Program: 709 and 1123
- AE6: Similarity level of the AE6 binding site pentapeptide HPEYF to the host proteome was low, with the low-similarity 5-mer occurring in the host proteome 0 times, indicating that this peptide can be used to elicit Abs for active/passive immunotherapy with low risk of cross-reaction with the host proteome. [Kanduc2008](#)
- AE6: The light and heavy chains of three MAbs (AG11, AE6, EH1) specific to C-terminus of NEF were cloned and variable regions sequenced -- the complementarity determining regions (CDR) of AG11 and AE6 were highly related (95.1% at the DNA level) and bound LAI Nef, but not SF2 Nef -- EH1 bound to SF2 and LAI and cross-competed AG11 and AE6 but had a distinctive CDR (57.9% similar to AG11) -- single chain Abs were constructed from AG11 and EH1. [Chang1998](#)

## References

Showing 4 of 4 references.

**Chang1998** A. H. Chang, J. A. Hoxie, S. Cassol, M. O'Shaughnessy, and F. Jirik. Construction of Single-Chain Antibodies That Bind an Overlapping Epitope of HIV-1 Nef. *FEBS Lett.*, 441:307-312, 1998. PubMed ID: [9883905](#). [Show all entries for this paper.](#)

**Kanduc2008** Darja Kanduc, Rosario Serpico, Alberta Lucchese, and Yehuda Shoenfeld. Correlating Low-Similarity Peptide Sequences and HIV B-Cell Epitopes. *Autoimmun. Rev.*, 7(4):291-296, Feb 2008. PubMed ID: [18295732](#). [Show all entries for this paper.](#)

**Greenway1994** A. L. Greenway, D. A. McPhee, E. Grgacic, D. Hewish, A. Lucantoni, I. Macreadie, and A. Azad. Nef 27, but not the Nef 25 Isoform of Human Immunodeficiency Virus-Type 1 pNL4.3 Down-Regulates Surface CD4 And IL-2R Expression in Peripheral Blood Mononuclear Cells and Transformed T Cells. *Virology*, 198:245-256, 1994. PubMed ID: [7903128](#). [Show all entries for this paper.](#)

**Tornatore1994** C. Tornatore, K. Meyers, W. Atwood, K. Conant, and E. Major. Temporal patterns of human immunodeficiency virus type 1 transcripts in human fetal astrocytes. *J. Virol.*, 68:93-102, 1994. PubMed ID: [8254781](#). [Show all entries for this paper.](#)

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Questions or comments? Contact us at [immuno@lanl.gov](mailto:immuno@lanl.gov)

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