

## Search Antibody Database

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<a href="#">MAb ID</a>	71-31	
<a href="#">HXB2 Location</a>	Gag	<a href="#">Gag Epitope Map</a>
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<a href="#">Epitope</a>		
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<a href="#">Neutralizing</a>		
<a href="#">Species (Isotype)</a>	human(IgG1 $\lambda$ )	
<a href="#">Patient</a>		
<a href="#">Immunogen</a>		
<a href="#">Keywords</a>	antibody generation	

### Notes

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- 71-31: Antibody generation paper. Antibodies were derived from 58 HIV+ patients. Synthesized by immortalization of peripheral blood cells with Epstein-Barr virus. [Gorny1989](#) (antibody generation)
- 71-31: NIH AIDS Research and Reference Reagent Program: 530.
- 71-31: Included as a negative control in studies that demonstrate that CXCR4 can bind to gp120 in the absence of CD4-gp120 interactions, and that this binding can be enhanced by Env deglycosylation. [Bandres1998](#)
- 71-31: Did not mediate deposition of complement component C3 on HIV infected cells. [Spear1993](#)
- 71-31: No enhancing or neutralizing activity. [Robinson1991](#)
- 71-31: Did not enhance HIV-1 IIIB infection. [Robinson1990a](#)

### References

Showing 7 of 7 references.

### Isolation Paper

**Gorny1989** M. K. Gorny, V. Gianakakos, S. Sharpe, and S. Zolla-Pazner. Generation of human monoclonal antibodies to human immunodeficiency virus. *Proc. Natl. Acad. Sci. U.S.A.*, 86:1624-1628, 1989. This paper described immortalization of B-cells from HIV-1 positive individuals with Epstein-Barr virus, to produce seven stable antibody producing cell lines. PubMed ID: [2922401](#). [Show all entries for this paper.](#)

**Robinson1990a** W. E. Robinson, Jr., T. Kawamura, M. K. Gorny, D. Lake, J.-Y. Xu, Y. Matsumoto, T. Sugano, Y. Masuho, W. M. Mitchell, E. Hersh, and S. Zolla-Pazner. Human Monoclonal Antibodies to the Human Immunodeficiency Virus Type 1 (HIV-1) Transmembrane Glycoprotein gp41 Enhance HIV-1 Infection In Vitro. *Proc. Natl. Acad. Sci. U.S.A.*, 87:3185-3189, 1990. Three gp41 MAbs out of 16 Env and Gag MAbs tested enhanced HIV-1 IIIB infection of MT-2 cells. The enhancing antibodies were competitive with the immunodominant epitopes of gp41 recognized by sera from HIV-1 infected subjects. PubMed ID: [2326277](#). [Show all entries for this paper.](#)

**Robinson1991** W. E. Robinson, M. K. Gorny, J.-Y. Xu, W. M. Mitchell, and S. Zolla-Pazner. Two Immunodominant Domains of gp41 Bind Antibodies Which Enhance Human Immunodeficiency Virus Type 1 Infection In Vitro. *J. Virol.*, 65:4169-4176, 1991. PubMed ID: [2072448](#). [Show all entries for this paper.](#)

**Spear1993** G. T. Spear, D. M. Takefman, B. L. Sullivan, A. L. Landay, and S. Zolla-Pazner. Complement activation by human monoclonal antibodies to human immunodeficiency virus. *J. Virol.*, 67:53-59, 1993. This study looked at the ability of 16 human MAbs to activate complement. MAbs directed against the V3 region could induce C3 deposition on infected cells and virolysis of free virus, but antibodies to the CD4BS and C-terminal region and two regions in gp41 could induce no complement mediated effects. Pre-treatment with sCD4 could increase complement-mediated effects of anti-gp41 MAbs, but decreased the complement-mediated effects of V3 MAbs. Anti-gp41 MAbs were able to affect IIIB but not MN virolysis, suggesting spontaneous shedding of gp120 on IIIB virions exposes gp41 epitopes. IgG isotype did not appear to have an effect on virolysis or C3 deposition. PubMed ID: [7677959](#). [Show all entries for this paper.](#)

**Gorny1997** Miroslaw K. Gorny, Thomas C. VanCott, Catarina Hioe, Zimra R. Israel, Nelson L. Michael, Anthony J. Conley, Constance Williams, Joseph A. Kessler II, Padmasree Chigurupati, Sherri Burda, and Susan Zolla-Pazner. Human Monoclonal Antibodies to the V3 Loop of HIV-1 With Intra- and Interclade Cross-Reactivity. *J. Immunol.*, 159:5114-5122, 1997. PubMed ID: [9366441](#). [Show all entries for this paper.](#)

**Gorny1998** M. K. Gorny, J. R. Mascola, Z. R. Israel, T. C. VanCott, C. Williams, P. Balfe, C. Hioe, S. Brodine, S. Burda, and S. Zolla-Pazner. A Human Monoclonal Antibody Specific for the V3 Loop of HIV Type 1 Clade E Cross-React with Other HIV Type 1 Clades. *AIDS Res. Hum. Retroviruses*, 14:213-221, 1998. PubMed ID: [9491911](#). [Show all entries for this paper.](#)

**Bandres1998** J. C. Bandres, Q. F. Wang QF, J.O'Leary, F. Baleaux, A. Amara, J. A. Hoxie, and S.Zolla-Pazner M. K. Gorny. Human immunodeficiency virus (HIV) envelope binds to CXCR4 independently of CD4, and binding can be enhanced by interaction with soluble CD4 or by HIV envelope deglycosylation. *J. Virol.*, 72:2500-2504, 1998. PubMed ID: [9499113](#). [Show all entries for this paper.](#)

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