



(51) International Patent Classification:

C07K 16/28 (2006.01) *G01N 33/577* (2006.01)
A61K 47/48 (2006.01) *C12N 5/12* (2006.01)
A61K 51/10 (2006.01)

(21) International Application Number:

PCT/US2010/028200

(22) International Filing Date:

23 March 2010 (23.03.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/162,348 23 March 2009 (23.03.2009) US

(71) Applicant (for all designated States except US): **QUARK PHARMACEUTICALS, INC.** [US/US]; 6501 Dumbarton Circle, Fremont, California 94555 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **FEINSTEIN, Elena** [IL/IL]; 12/29 HaHagana Street, 76214 Rehovot (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: COMPOUNDS COMPOSITIONS AND METHODS OF TREATING CANCER AND FIBROTIC DISEASES

FIGURE 2C

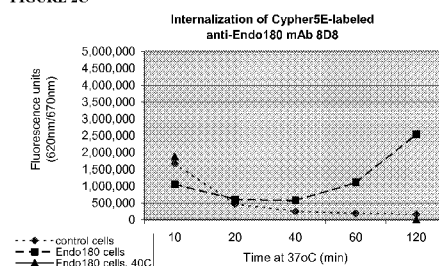
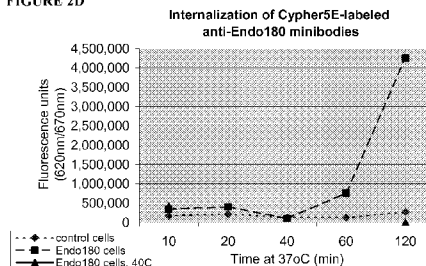


FIGURE 2D



(57) **Abstract:** The present invention provides antibodies or antigen-binding fragments thereof that specifically bind the ENDO180 polypeptide and are internalized thereby, to conjugates comprising the molecules, to compositions comprising the antibodies and conjugates and to methods of using the same for delivery of therapeutic agents to cells that express the ENDO180 polypeptide on the surface of the cell for treating cell proliferative diseases or disorders and fibrosis, and for controlling (modulating) tumor progression.