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**CAPITAL INCREASE IN GENMAB AS A RESULT OF EXECUTION
OF PRIVATE PLACEMENT TO GLAXOSMITHKLINE**

Summary: Genmab increases its share capital by 4,471,202 shares as a result of execution of private placement to GlaxoSmithKline.

Copenhagen, Denmark; February 7, 2007 – Genmab A/S (CSE: GEN) hereby announces the direct placement of 4,471,202 ordinary Genmab A/S (the “Company” or “Genmab”) shares of DKK 1 nominal value each at a subscription price of DKK 454.65 per share in a private placement (the “Placement”) to Glaxo Group Limited “GSK”. This Placement which is made in connection with the worldwide agreement to co-develop and commercialize HuMax-CD20 was originally announced on December 19, 2006.

Genmab's current share capital amounts to DKK 39,648,355 and will after completion of the capital increase be DKK 44,119,557.

It is expected that the new shares will be admitted for listing on the Copenhagen Stock Exchange on February 9, 2007 after registration with the Danish Commerce and Companies Agency.

The statutory private placement memorandum prepared in Danish in connection with the Placement has been approved by the Danish Financial Supervisory Authority and published in accordance with applicable rules.

About Genmab A/S

Genmab A/S is a biotechnology company that creates and develops human antibodies for the treatment of life-threatening and debilitating diseases. Genmab has numerous products in development to treat cancer, infectious disease, rheumatoid arthritis and other inflammatory conditions, and intends to continue assembling a broad portfolio of new therapeutic products. At present, Genmab has multiple partnerships to gain access to disease targets and develop novel human antibodies including agreements with Roche and Amgen. A broad alliance provides Genmab with access to Medarex, Inc.'s array of proprietary technologies, including the UltiMab[®] platform for the rapid creation and development of human antibodies to virtually any disease target. In addition, Genmab has developed UniBody[™], a new proprietary technology that creates a stable, smaller

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antibody format. Genmab has operations in Europe and the US. For more information about Genmab, visit www.genmab.com.

This press release contains forward looking statements. The words “believe”, “expect”, “anticipate”, “intend” and “plan” and similar expressions identify forward looking statements. Actual results or performance may differ materially from any future results or performance expressed or implied by such statements. The important factors that could cause our actual results or performance to differ materially include, among others, risks associated with product discovery and development, uncertainties related to the outcome and conduct of clinical trials including unforeseen safety issues, uncertainties related to product manufacturing, the lack of market acceptance of our products, our inability to manage growth, the competitive environment in relation to our business area and markets, our inability to attract and retain suitably qualified personnel, the unenforceability or lack of protection of our patents and proprietary rights, our relationships with affiliated entities, changes and developments in technology which may render our products obsolete, and other factors. Genmab is not under an obligation to up-date statements regarding the future following the publication of this release; nor to confirm such statements in relation to actual results, unless this is required by law.

Genmab[®]; the Y-shaped Genmab logo[®]; HuMax[®]; HuMax-CD4[®]; HuMax-EGFr[™]; HuMax-Inflam[™]; HuMax-CD20[™]; HuMax-TAC[™]; HuMax-HepC[™]; HuMax-CD38[™]; HuMax-ZP3[™]; and UniBody[™] are all trademarks of Genmab A/S.

UltiMAb[®] is a trademark of Medarex, Inc.

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