

Breast Cancer Research Products

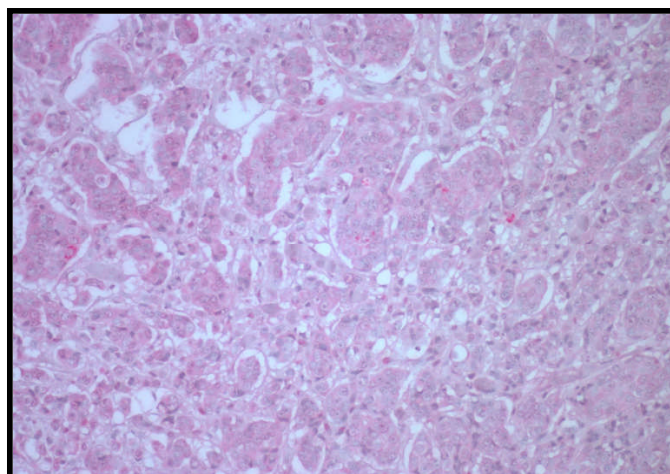
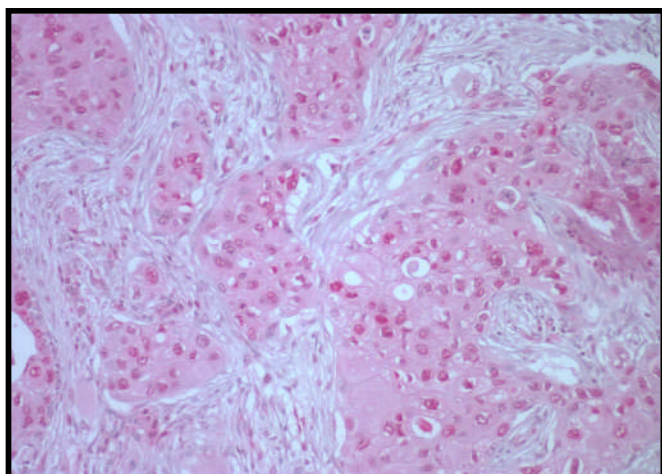


Figure 1. Breast tissue, stained with BioCheck affinity purified rabbit polyclonal anti-HMGA2. Left panel, breast ductal carcinoma tissue C9-1 shows positive staining. Right panel, normal breast tissue C7-1 shows no positive staining (courtesy of Dr. Kiran Chada, HMGene Group).

HMGA2 Reagents and ELISA

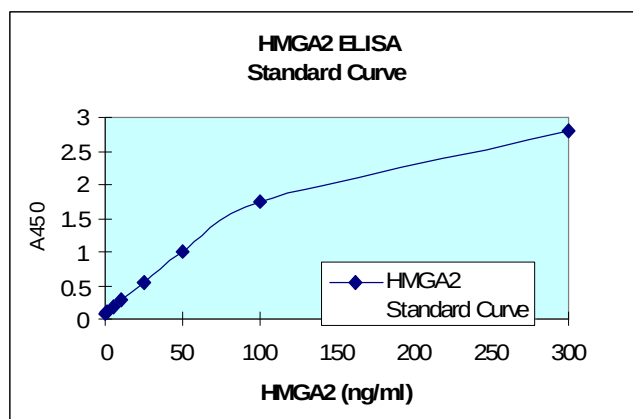
- Affinity Purified Rabbit Polyclonal
- Recombinant HMGA2
- Research HMGA2 ELISA Kit

For Research Use Only

HMGA2 Protein Background

High motility group (HMG) proteins are transcription factors that are expressed during embryonic development, not in normal adult tissues. The HMGI family consists of 3 proteins, HMGI, HMGI(Y) and HMGA2 (also known as HMGI-C). Experiments with knockout HMGA2 $-/-$ mice yielded a reduced body weight compared to wild-type HMGA2 $+/+$ mice, which indicates that HMGA2 plays a role in mammalian growth. Interest in HMGA2 has increased recently as it has been found that HMGA2 is expressed in neoplastic tissues and that it apparently has a role in control of cell growth, differentiation and tumorigenesis. HMGA2 is expressed in tumor tissue but not in normal tissue immediately adjacent to the tumor tissue. Studies in peripheral blood show that HMGA2 is not present in normal healthy donors, but is present in the blood of a subset of breast cancer patients. In general, the presence of HMGA2 in the peripheral blood of breast cancer patients has a correlation with poor survival and with a higher histologic grade of the tumor. (1,2,3)

1. Rogalla *et al.*, Molecular Carcinogenesis 19 (1997) 153-156.
2. Sezer *et al.*, European Journal of Cancer 36 (2000) 1944-1948.
3. Langelotz *et al.*, British Journal of Cancer 88 (2003) 1406-1410.



HMGA2 ELISA Standard Curve	
HMGA2-GST (ng/ml)	A ₄₅₀
0	0.079
1.5	0.099
5	0.170
10	0.273
25	0.548
50	0.992
100	1.731
300	2.789

Figure 2. The BioCheck HMGA2 ELISA, standard curve with recombinant HMGA2. The HMGA2 ELISA is designed for the measurement of HMGA2 in cell culture supernatants, cell extracts, and tissue extracts.

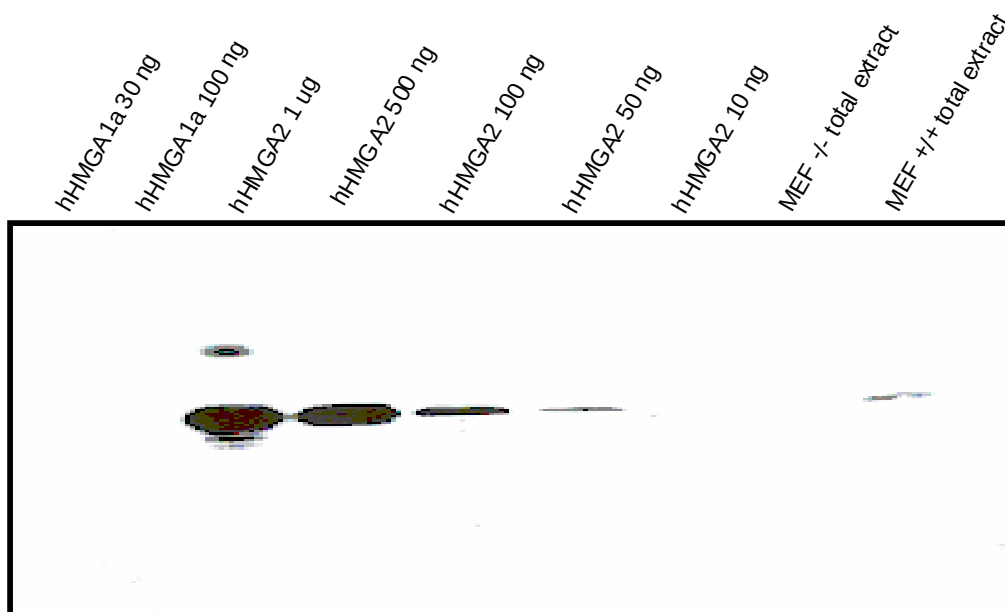


Figure 3. Western Blot with **BioCheck** affinity purified rabbit polyclonal anti-HMGA2. The antibody reacts with recombinant HMGA2 and MEF (mouse embryonic fibroblasts) from wild type HMGA2 +/- mice (positive control). There is no reactivity with HMGA1a or with MEF from knockout mice HMGA2 -/- (negative control).

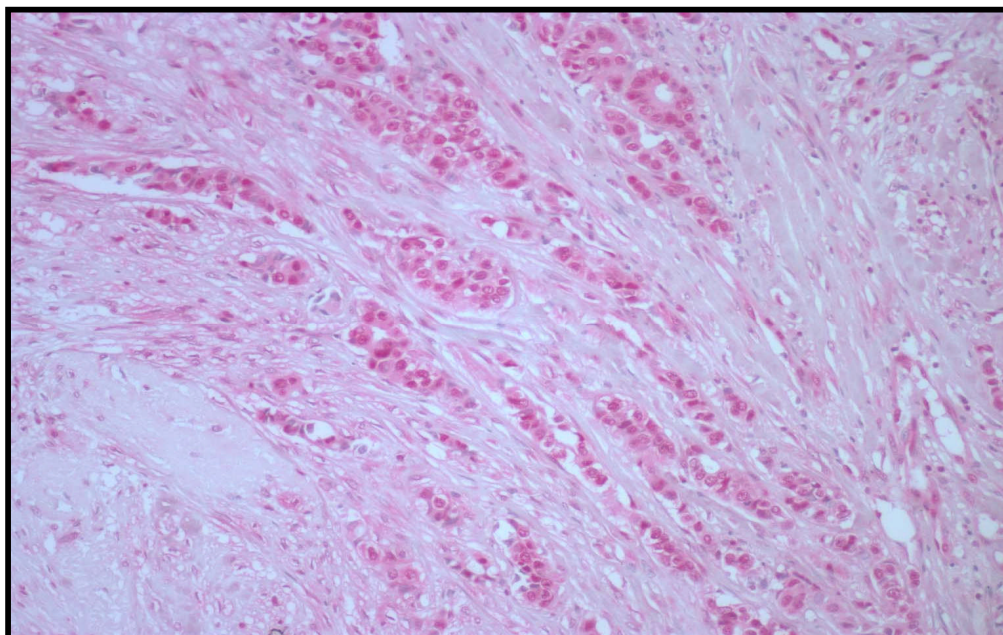


Figure 4. Breast tissue, stained with **BioCheck** affinity purified rabbit polyclonal anti-HMGA2. Breast ductal carcinoma tissue C10-1 shows positive staining.

HMGA2 Products

Marker	Catalog #	Product	Application	Description
HMGA2	59170AP	Rabbit Polyclonal, AP	WB, IHC, EIA	Rabbit polyclonal anti human-HMGA2, affinity purified
HMGA2	59210AP	Rabbit Polyclonal, AP	WB, EIA	Rabbit polyclonal anti human-HMGA2, affinity purified
HMGA2	70354	Recombinant Protein	WB, EIA Standard	Recombinant Human HMGA2
HMGA2	BC-1127	ELISA	Quantitative EIA	Human HMGA2 ELISA

Products are for Research Use Only. Not intended for Diagnostic Purposes.



TO ORDER:

Oxis International

323 Vintage Park Drive, Suite B

Foster City, CA 94404

Tel: 650-212-2568

FAX: 650-212-2569

Email: sales@oxis.com

Website: www.oxisresearch.com