

Key Antibodies for Breast Pathology



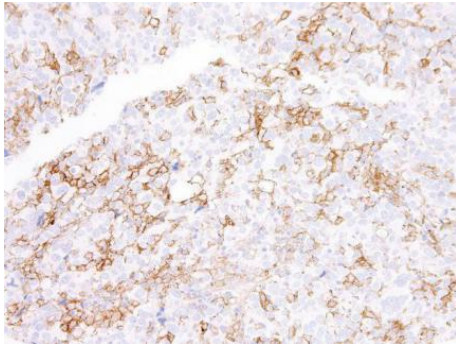
Key immunohistochemistry antibodies for breast carcinoma

Our IHC antibodies have been characterized at different concentrations against normal or diseased human tissues, plus additional relevant controls.

INTRODUCTION

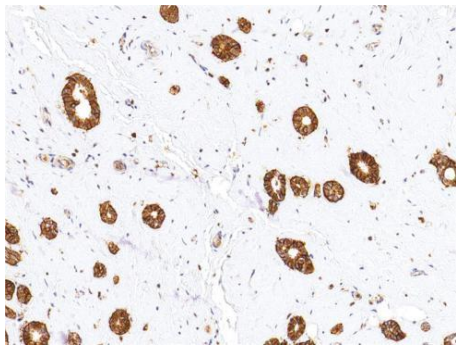
The biology of breast carcinoma is complex, with multiple factors contributing to its development and progression. It is well established that estrogen receptor, progesterone receptor, retinoic acid receptor- β , epidermal growth factor receptor family members, p53, BRCA1, and BRCA2 play a crucial role in the development of disease, predictors of prognosis and response to therapy.

Our growing knowledge regarding breast carcinoma biology is having an ever greater impact on clinical management. Distinct characteristics of breast carcinoma can be exploited to help determine lifetime risk of development of the disease, the overall prognosis after a diagnosis of breast carcinoma, and the likelihood of response to specific therapy.



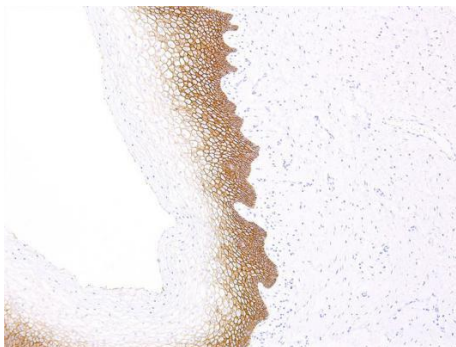
CD274 / PD-L1 / B7-H1

Programmed Death-Ligand 1 (PD-L1), also known as CD274 or B7 Homolog 1 (B7-H1), is a transmembrane protein involved in suppressing the immune system and rendering tumor cells resistant to CD8+ T cell-mediated lysis through binding of the Programmed Death-1 (PD-1) receptor. Overexpression of PD-L1 may allow cancer cells to evade the actions of the host immune system.



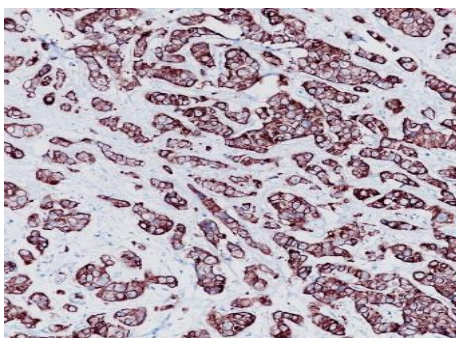
Cluster of differentiation 44 (CD44)

CD44 is a glycoprotein receptor for hyaluronic acid, which plays a fundamental role in cellular adhesion, stromal binding, migration, and cell-cell interactions. CD44 is expressed on approximately 90% of lymphocytes, monocytes, granulocytes, and, in lower amounts on thymocytes, fibroblasts, and erythrocytes. The expression of specific cell adhesion molecule CD44 splice variants has been reported to be associated with metastasis in certain human malignancies.



E-cadherin (CDH1)

E-cadherin is a transmembrane, calcium dependent cell adhesion protein that mediates cell to cell adhesion and maintains structural and functional integrity of epithelial tissues. It also has pivotal barrier functions and maintains the polarity of epithelial cells. Reduced or aberrant E-cadherin expression breaks cell to cell contacts, and thus, cells acquire the ability to migrate. In normal tissues, immunostaining of E-cadherin is localized to the membrane of epithelial cells, consistent with its role in cell adhesion.



Cytokeratin 7 (KRT7)

KRT7 is expressed on most ductal and glandular epithelium including lung, breast, bladder and female genital tract, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium. In tumor tissues, its expression is absent in colon cancer, prostate cancer and squamous carcinomas. KRT7 is often used in concert with KRT20 and CDX-2 to aid in distinguishing ovarian, pulmonary and breast carcinomas (CK7+) from colon carcinomas (CK7-).

MONOCLONAL ANTIBODIES FOR BREAST

Target Protein	Source	Clone	Product No.
BCA225	Mouse	JID336	CABT-L2977
BRCA1	Mouse	JID512	CABT-L2863
CA9; Carbonic anhydrase IX	Mouse	JID635	CABT-L2831
CD274	Mouse	JID522	CABT-L2928
	Rabbit	CQ7252	CABT-Z184R
	Rabbit	CQ7170	CABT-Z236R
CD44	Mouse	JID155	CABT-L2837
	Rabbit	CQ7242	CABT-Z285R
	Rabbit	CQ7216	CABT-Z263R
	Rabbit	CQ7124	CABT-Z190R
CDH1; E-cadherin	Mouse	JID675	CABT-L2886
	Rabbit	CQ7159	CABT-Z219R
COL4A1; Collagen, type IV, alpha 1	Rabbit	CQ7183	CABT-Z239R
CTNND1; Catenin delta 1	Mouse	JID231	CABT-L2822
	Rabbit	CQ7186	CABT-Z241R
	Mouse	JID676	CABT-L2809
	Rabbit	CQ7108	CABT-Z260R
ERBB2; HER2; neu	Mouse	JID113	CABT-L2806
	Rabbit	CQ7131	CABT-Z194R
ERCC1; ERCC1	Mouse	JID679	CABT-L2964
ERG; ERG	Mouse	JID680	CABT-L2860
	Rabbit	CQ7238	CABT-Z282R
ESR1; Estrogen Receptor	Mouse	JID514	CABT-L2951
	Rabbit	CQ7137	CABT-Z199R
	Rabbit	CQ7240	CABT-Z290R
FOXA1; Forkhead box A1	Mouse	JID689	CABT-L2866
GATA3; GATA binding protein 3	Mouse	JID694	CABT-L2856
Histone H3	Mouse	JID759	CABT-L3008
	Rabbit	CQ7103	CABT-Z257R
IGF1R; Insulin-like Growth Factor-1	Mouse	JID716	CABT-L2807
KRT20; keratin 20	Rabbit	CQ7141	CABT-Z203R
KRT7; keratin 7	Rabbit	CQ7171	CABT-Z229R
KRT8; keratin 8	Rabbit	CQ7116	CABT-Z186R
MET; c-Met	Mouse	JID658	CABT-L2808

MKI67; Marker of proliferation Ki-67	Mouse	JID178	CABT-L2813
	Rabbit	CQ7156	CABT-Z216R
MTDH; AEG1; Metadherin	Mouse	JID618	CABT-L2918
MUC1; mucin 1	Mouse	JID734	CABT-L2950
	Rabbit	CQ7145	CABT-Z207R
NGFR; Nerve growth factor receptor	Mouse	JID748	CABT-L2944
PGR; Progesterone receptor	Mouse	JID762	CABT-L2868
	Rabbit	CQ7192	CABT-Z246R
PIP; Prolactin-induced protein	Mouse	JID126	CABT-L2900
	Rabbit	CQ7229	CABT-Z274R
S100P	Mouse	JID769	CABT-L2945
	Rabbit	CQ7129	CABT-Z193R
SALL4; Sal-like 4	Mouse	JID770	CABT-L2858
SCGB2A2; Secretoglobin, family 2A, member 2; Mammaglobin	Mouse	JID730	CABT-L2913
	Rabbit	CQ7236	CABT-Z280R
VEGF; Vascular endothelial growth factor	Mouse	JID793	CABT-L3034

** All the IHC/Pathology antibodies are for research use only.*

Creative Diagnostics is an international company with a strong network of worldwide customer services. Products from Creative Diagnostics are for research use only and are not intended for therapeutic or diagnostic applications.

Our IHC antibodies have been characterized at different concentrations against normal or diseased human tissues, plus additional relevant controls. Multiple test verification on antibodies ensures reproducible and reliable immunohistochemistry test results. All high-quality IHC antibodies are available in pre-diluted format (Ready-to-use and optimized for staining), as well as concentrated format (Cost-effective and can be optimized to meet different needs of each laboratory).

CONTACT

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