

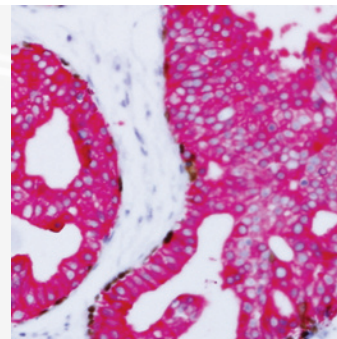
5 Problems, One Simple Solution

ADH-5 simplifies interpretation and helps with diagnostic challenges such as differentiation of atypical ductal hyperplasia from hyperplasia of the usual type, identifying microinvasion and invasive ductal carcinoma, and distinguishing basal phenotypes in triple negatives.

Multiplex IHC is a powerful tool to solve the challenging problems of breast cancer diagnosis. ADH-5 simultaneously tests for 5 key markers (CK5/14, p63 and CK7/18) of breast disease in one simple staining procedure.

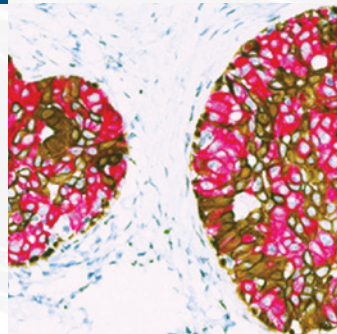
- ▶ Differentiate usual hyperplasia from ADH
- ▶ Identify microinvasion and invasive ductal carcinoma
- ▶ Distinguish basal phenotypes in triple negatives
- ▶ One multiplex IHC replaces three single stains

ADH-5

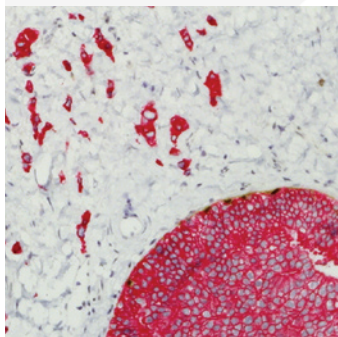
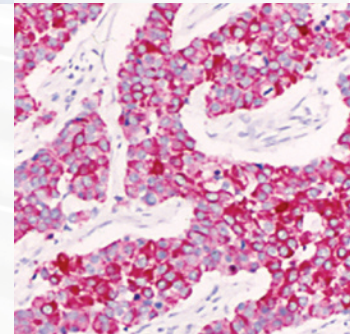


Atypical Ductal Hyperplasia; CK5/14 and p63 staining basal myoepithelium cells (DAB); CK7/18 staining luminal epithelium (FR). ◀

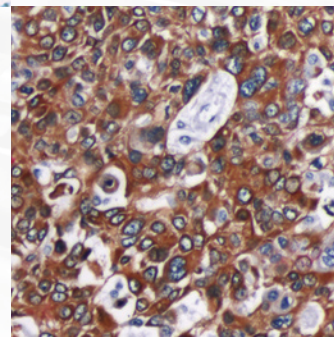
Hyperplasia of the usual type; p63 staining basal myoepithelium cells (DAB); CK5/14 (DAB) and CK7/18 (FR) staining luminal epithelium. ▶



Invasive breast cancer: CK7/18 only. ▶



Microinvasion; CK7/18 only (FR). Loss of CK5/14 and p63 (DAB). ◀

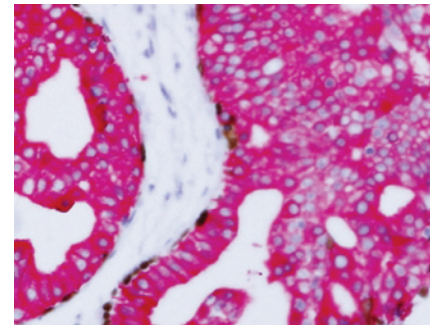


Basal phenotype: luminal staining showing expression of CK5/14 (DAB). ◀

ADH-5™

Simplifying the interpretation of five challenging breast diseases in one easy test. ADH-5 breast marker multiplex IHC is composed of CK5/14 + p63 + CK7/18 antibodies. This multiplex IHC product can assist with the diagnosis of a range of breast cancer indications: Invasive versus noninvasive breast lesions can be easily distinguished by the presence or absence of myoepithelium (CK5/14 and/or p63, DAB) and glandular staining of breast cancer with CK7/18 (Fast Red). ADH-5 can clearly differentiate hyperplasia of the usual type from atypical hyperplasia, and identifies microinvasion and basal phenotypes in breast cancer.

Luminal or cytoplasmic staining may also be observed with CK5/14 and/or CK7/18 bimodal staining. For a basal-phenotype classification only CK5/14 (DAB) luminal staining is observed. Breast cancer with bimodal and/or basal-like staining is associated with poor prognosis.



Atypical Ductal Hyperplasia: CK5/14 and p63 staining basal myoepithelium cells (DAB), CK7/18 staining luminal epithelium (FR).

Breast Marker Products from Biocare

Product Name	Clinical Utility	Cat No.
ADH-5	Myoepithelium / basal phenotype	PM 360DS AA, H
AKT (phosphorylated)	Poor prognosis	CRM 276 AK
Bcl-2	Predictive	CM 003, PM 003 AA
Bmi-1	Progenitor / molecular marker for metastasis	CM 337 AK
BRCA1	BRCA1 protein	CM 345 A, B, C
Caspase-3 (Activated)	Marker of apoptosis	CP 229 A, B, C, PP 229 AA
CD133	Stem cell population	CP 348 A, B, C
CD24	Marker for poor prognosis	CM 323 A, B
CD31	Angiogenesis	PM 131 AA
CD44	CD24 (-) and CD44 (+) identifies stem cell population	CM 318 A, B, C, PM 318 AA
c-erbB-2 (CB11)	Herceptin response	CME 342 A, B, PME 342 AA
CK5 + p63	Myoepithelial marker / basal phenotype	PM 235 AA, H
COX-2 (RM)	Marker of poor prognosis	CRM 306 A, B, C, PRM 306 AA
D2-40	Lymphatic marker	CM 266 A, B, C, PM 266 AA
E-cadherin	Associated with metastasis and poor prognosis	CM 170 A, B, C, PM 170 AA
EGFR (Phosphorylated) (RM)	Poor prognosis	CME 300 AK, PME 300 AA
ER [6F11]	Estrogen receptor	CM 093 A, B, C, PM 093 AA, H
ER Cocktail [6F11 + SP1]	Estrogen receptor	PM 308 AA, H
GCDFP-15	Breast marker	CM 113 A, B, C, PM 113 AA
GCDFP-15 + Mammaglobin - Double Stain	Dual breast marker	PM 317DS AA
Ki-67	Cell proliferation	CM 080 A, B, C, PM 080 AA, H
Mammaglobin (RM)	Breast marker	PM 269 AA, H
MUC-1	Prognostic	CM 319 A, B, PM 319 AA
p53 (RM)	Poor prognosis	CME 298 AK, BK, PME 298 AA
PR	Progesterone receptor	PM 343 AA, H
PTEN	Tumor suppressor (favorable prognosis)	CM 278 A, PM 278 AA

BIOCARE
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800.799.9499
4040 Pike Lane
Concord CA 94520

www.biocare.net