

# Estrogen Receptor (ER) [1D5]

Concentrated and Prediluted Monoclonal Antibody  
903-054-070622

**BIOCARE**  
M E D I C A L

Available Product Formats				
Format	Catalog Number	Description	Dilution	Diluent
Concentrate	ACA 054 A, C	0.1, 1.0 mL	1:100	Van Gogh Yellow
Predilute	APA 054 AA	6.0 mL	Ready-to-use	N/A
ONCORE Pro	OPAA 054 T60	60 tests	Ready-to-use	N/A
Q Series	ALA 054 G7	7.0 mL	Ready-to-use	N/A

## Intended Use:

Analyte Specific Reagent. Analytical and performance characteristics are not established.

## Summary & Explanation:

Estrogen Receptor (ER) [1D5] is a mouse monoclonal antibody directed against human estrogen receptor protein. ER is a 66 kDa protein that mediates the actions of estrogen in estrogen-responsive tissues. It is a member of a large superfamily of nuclear-hormone receptors that function as ligand-activated transcription factors. The ER gene consists of more than 140 kb of genomic DNA divided into 8 exons. These translate into a protein with six functionally discrete domains labeled A through F. ER [1D5] reacts with the amino-terminal domain in the A/B region of ER-alpha. This clone has been established to work in formalin-fixed, paraffin-embedded tissues and has been published in numerous breast cancer research studies.

**Source:** Mouse monoclonal

**Clone:** 1D5

**Isotype:** IgG1/kappa

## Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

## Supplied As:

Buffer with protein carrier and preservative

## Storage and Stability:

Store at 2°C to 8°C. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

## References:

1. Paech K, *et al.* Differential ligand activation of estrogen receptors ERalpha and ERbeta at AP1 sites. *Science*. 1997 Sep; 277(5331):1508-10.
2. Brock JE, *et al.* A comparison of estrogen receptor SP1 and 1D5 monoclonal antibodies in routine clinical use reveals similar staining results. *Am J Clin Pathol*. 2009 Sep; 132(3):396-401.
3. Madeira KP, *et al.* Comparison of immunohistochemical analysis with estrogen receptor SP1 and 1D5 monoclonal antibodies in breast cancer. *Pathol Res Pract*. 2012 Nov; 208(11):657-61.
4. Nadji M, *et al.* Immunohistochemistry of estrogen and progesterone receptors reconsidered: experience with 5,993 breast cancers. *Am J Clin Pathol*. 2005 Jan; 123(1):21-7.
5. Center for Disease Control Manual. Guide: Safety Management, NO. CDC-22, Atlanta, GA. April 30, 1976 "Decontamination of Laboratory Sink Drains to Remove Azide Salts."
6. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.