

**Mouse Anti-ER-beta [ERb455]: MC0973, MC0973RTU7**

**Intended Use:** For Research Use Only

**Description:** Isoform beta-1 is expressed in testis and ovary, and at a lower level in heart, brain, placenta, liver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus. Also found in uterine bone, breast, and ovarian tumor cell lines, but not in colon and liver tumors. Isoform beta-2 is expressed in spleen, thymus, testis and ovary and at a lower level in skeletal muscle, prostate, colon, small intestine, leukocytes, bone marrow, mammary gland and uterus. Isoform beta-3 is found in testis. Isoform beta-4 is expressed in testis, and at a lower level in spleen, thymus, ovary, mammary gland and uterus. Isoform beta-5 is expressed in testis, placenta, skeletal muscle, spleen and leukocytes, and at a lower level in heart, lung, liver, kidney, pancreas, thymus, prostate, colon, small intestine, bone marrow, mammary gland and uterus. Not expressed in brain. Nuclear hormone receptor. Binds estrogens with an affinity similar to that of ESR1, and activates expression of reporter genes containing estrogen response elements in an estrogen-dependent manner. Isoform beta-cx lacks ligand binding ability and has no or only very low binding activity resulting in the loss of ligand-dependent transactivation ability.

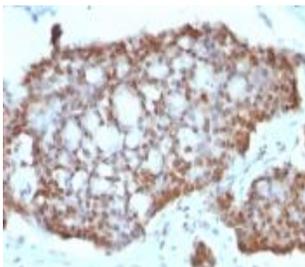
**Specifications:**

Clone: ERb455  
 Source: Mouse  
 Isotype: IgG2a  
 Reactivity: Human, monkey, mouse, rat, pig, horse, sheep  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., IF, WB  
 Package:

Description	Catalog No.	Size
ER-beta Concentrated	MC0973	1 ml
ER-beta Prediluted	MC0973RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Testis tissue  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human gastric carcinoma stained with ER-beta1 using DAB

**References:**

1. Reproductive Hormones and Their Receptors May Affect Lung Cancer. Dou M et al. Cell Physiol Biochem. 2017.
2. Association of the oestrogen receptor beta with hormone status and prognosis in a cohort of female patients with colorectal cancer. Topi G et al. Eur J Cancer. 2017.