

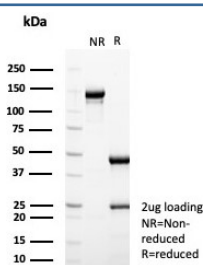
Estrogen Receptor alpha Antibody [clone ESR1/8206R] (V5191)

| Catalog No. | Formulation | Size |
|----------------|---|--------|
| V5191-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5191-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V5191SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Recombinant **RABBIT MONOCLONAL**

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| | |
|---------------------------|---|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Format | Purified |
| Clonality | Recombinant Rabbit Monoclonal |
| Isotype | Rabbit IgG, kappa |
| Clone Name | ESR1/8206R |
| Purity | Protein A/G affinity |
| UniProt | P03372 |
| Localization | Nucleus |
| Applications | ELISA (Order BSA-free Format For Coating) : |
| Limitations | This Estrogen Receptor alpha antibody is available for research use only. |



SDS-PAGE analysis of purified, BSA-free ESR1 antibody (clone ESR1/8206) as confirmation of integrity and purity.

Description

Estrogen receptor (ER) belongs to the steroid receptor superfamily of nuclear receptors. It is a protein with 553 amino acids. The receptor molecule has three domains, i.e. the central DNA-binding domain, the hormone-binding domain at the C-terminal, and the transcription-activating domain at the N-terminal. ER mediates regulatory functions of female sex steroids, mainly 17 (E2), on growth, differentiation and function in several target tissues, including female and male

reproductive tract, mammary gland, and skeletal and cardiovascular systems. Studies have shown ER Alpha is present in the nuclei of epithelial cells in normal breast and endometrial tissues, as well as a subset of breast carcinomas. Studies with immunohistochemical assay show that positive steroid hormone status has predicted favorable overall, survival, independently of hormonal treatment. Secondly, ER Alpha can be used as a tumor marker, preferentially in combination with an antibody to progesterone receptor, e.g., in the classification of adenocarcinomas.

Application Notes

Optimal dilution of the Estrogen Receptor alpha antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 495-595) from the human protein was used as the immunogen for the Estrogen Receptor alpha antibody.

Storage

Aliquot the Estrogen Receptor alpha antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.