



# Anti-ESR2 (aa 22-121) polyclonal antibody (DPAB-DC905)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Antigen Description</b> | This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. |
| <b>Immunogen</b>           | ESR2 (NP_001428, 22 a.a. ~ 121 a.a) partial recombinant protein with GST tag. The sequence is<br>ILPLEHGSIYIPSSYVDSHHEYPAMTFYSPAVMNYSIPSNVTNLEGGPGRQTTSPNVLWP<br>TPGHLSPLVVHRQLSHLYAEPQKSPWCEARSLEHTLPVNR  |
| <b>Source/Host</b>         | Mouse  |
| <b>Species Reactivity</b>  | Human  |
| <b>Conjugate</b>           | Unconjugated   |
| <b>Applications</b>        | WB (Cell lysate), ELISA,   |
| <b>Size</b>                | 50 µl  |
| <b>Buffer</b>              | 50 % glycerol  |
| <b>Preservative</b>        | None   |
| <b>Storage</b>             | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.   |

# GENE INFORMATION

|                     |   |
|---------------------|---|
| Gene Name           | <a href="#">ESR2 estrogen receptor 2 (ER beta) [ Homo sapiens (human) ]</a>   |
| Official Symbol     | ESR2  |
| Synonyms            | ESR2; estrogen receptor 2 (ER beta); Erb; ESRB; ESTRB; NR3A2; ER-BETA; ESR-BETA; estrogen receptor beta; estrogen receptor beta 4; nuclear receptor subfamily 3 group A member 2; |
| Entrez Gene ID      | <a href="#">2100</a>  |
| Protein Refseq      | <a href="#">NP_001035365</a>  |
| UniProt ID          | <a href="#">F1D8N3</a>  |
| Chromosome Location | 14q23.2   |
| Pathway             | Estrogen signaling pathway; Generic Transcription Pathway; Nuclear Receptor transcription pathway; Ovarian Infertility Genes  |
| Function            | DNA binding; core promoter sequence-specific DNA binding; enzyme binding; estrogen receptor activity  |