Recombinant DGRmAb®

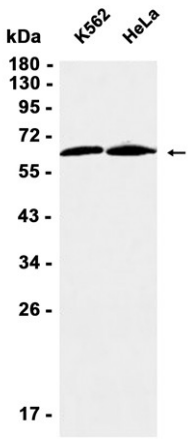
Estrogen Receptor alpha (DGR11560) Rabbit mAb (PBS Only)

db12490-PBS **Package : 10μg 100μg**

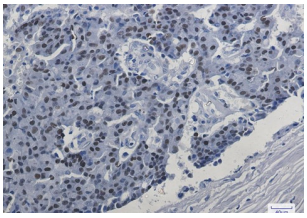
Product Name : Estrogen Receptor alpha (DGR11560) Rabbit mAb (PBS Only)
Cat.No.: db12490-PBS
Synonyms : ER; ESR; Era; ESRA; ESTRR; NR3A1
Application : WB, IHC-P, ICC/IF, FC
Reactivity : Human,Mouse,Rat
Host species : Rabbit

Background	This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants has not been determined. [provided by RefSeq, Mar 2014]
Immunogen	A synthetic peptide of human Estrogen Receptor alpha
Gene ID	2099
Swiss Prot	P03372
Synonyms	ER; ESR; Era; ESRA; ESTRR; NR3A1
Reactivity	Human,Mouse,Rat
Application	WB, IHC-P, ICC/IF, FC
Calculated MW	66 kDa
Observed MW	66 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR11560
Isotype	IgG
Purity	Affinity Purification

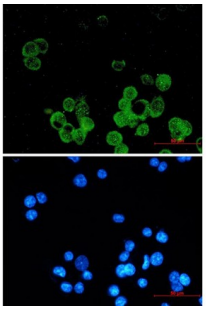
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



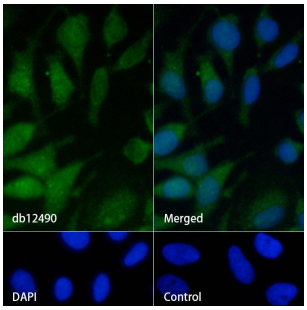
Western blot analysis of extracts from K562, HeLa cells using db12490 at 1:1000.



Immunohistochemical analysis of paraffin-embedded human breast cancer using db12490 antibody.



Immunofluorescent analysis of MCF-7 cells using db12490 antibody (green), and DAPI (blue).



Immunofluorescence analysis of HeLa cells labelling Estrogen Receptor alpha with db12490.

The cells were fixed with cold 100% methanol (10min, 4℃) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db12490 (1:100) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.