

## USP45 Antibody

Catalog No: #42822

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

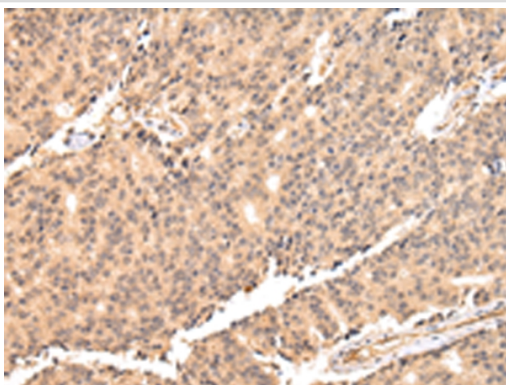
## Description

Product Name	USP45 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total USP45 protein.
Immunogen Type	protein
Immunogen Description	Full length fusion protein of human USP45
Target Name	USP45
Other Names	Deubiquitinating enzyme 45; MGC14793; Ubiquitin carboxyl-terminal hydrolase 45; ubiquitin specific peptidase 45; ubiquitin specific protease 45
Accession No.	Swiss-Prot#: Q70EL2Gene ID: 85015
Uniprot	Q70EL2
GeneID	85015;
Concentration	1.3mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.
Storage	Store at -20°C

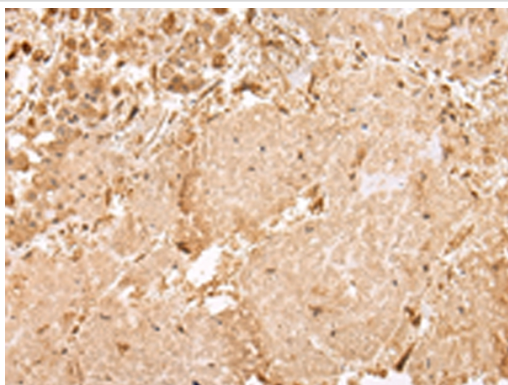
## Application Details

Immunohistochemistry: 1:25-1:100

## Images



Immunohistochemical analysis of paraffin-embedded Human prostate cancer tissue using #42822 at dilution 1/25.



Immunohistochemical analysis of paraffin-embedded Human esophagus cancer tissue using #42822 at dilution 1/25.

## Background

The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. A wide range of enzymes facilitate the proteolytic Ub pathway, including USPs (ubiquitin specific peptidases), which are cysteine proteases that are responsible for the release of ubiquitin from a ubiquitylated substrate and precursor fusion proteins. USP45 (Ubiquitin carboxyl-terminal hydrolase 45), also known as Deubiquitinating enzyme 45, is a 819 amino acid protein that is involved in ubiquitin-dependent protein catabolism. USP45 differs from other USPs in that it contains a UBP-type zinc finger, a domain which binds ubiquitin. Although USP45 is broadly expressed, the highest levels can be found in skeletal muscle, spleen and ovary. There are three isoforms of USP45 which are produced as a result of alternative splicing.

Note: This product is for in vitro research use only