

USP45 Conjugated Antibody

Catalog No: #C42822



Package Size: #C42822-AF350 100ul #C42822-AF405 100ul #C42822-AF488 100ul
 #C42822-AF555 100ul #C42822-AF594 100ul #C42822-AF647 100ul
 #C42822-AF680 100ul #C42822-AF750 100ul #C42822-Biotin 100ul

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Description

Product Name	USP45 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total USP45 protein.
Immunogen Description	Full length fusion protein of human USP45
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Deubiquitinating enzyme 45; MGC14793; Ubiquitin carboxyl-terminal hydrolase 45; ubiquitin specific peptidase 45; ubiquitin specific protease 45
Accession No.	Swiss-Prot#:Q70EL2NCBI Gene ID:85015NCBI mRNA#:BC005991
Uniprot	Q70EL2
GeneID	85015;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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