

# UBE2K Conjugated Antibody

Catalog No: #C38184



Package Size: #C38184-AF350 100ul #C38184-AF405 100ul #C38184-AF488 100ul  
 #C38184-AF555 100ul #C38184-AF594 100ul #C38184-AF647 100ul  
 #C38184-AF680 100ul #C38184-AF750 100ul #C38184-Biotin 100ul

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## Description

Product Name	UBE2K Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total UBE2K antibody.
Immunogen Description	Recombinant protein of human UBE2K.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	UBE2K;DKFZp564C1216;DKFZp686J24237;E2-25K;HIP2;HYPG;LIG ;
Accession No.	Swiss-Prot#:P61086NCBI Gene ID:3093
Uniprot	P61086
GeneID	3093;
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
Calculated MW	22
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

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Protein ubiquitination requires the concerted action of the E1, E2, and E3 ubiquitin-conjugating enzymes. Ubiquitin is first activated through ATP-dependent formation of a thiol ester with ubiquitin-activating enzyme E1. The activated ubiquitin is then transferred to a thiol group of ubiquitin-carrier enzyme E2. The final step is the transfer of ubiquitin from E2 to an  $\epsilon$ -amino group of the target protein lysine residue, which is mediated by ubiquitin-ligase enzyme E3 (1).

E2-25K (Hip2) is a member of the E2 protein family that catalyzes multiubiquitin chain synthesis via Lys48 of ubiquitin (2). E2-25K is reportedly involved in Alzheimer's disease, Huntington's disease and antigen processing through its interaction with amyloid- $\beta$ , huntingtin, and MHC-heavy chain proteins (3-5). Lys14 of E2-25K can be modified by SUMOylation, with this modification resulting in inhibited E2 activity (6).

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Note: This product is for in vitro research use only