



Rabbit Anti-CBX4 antibody

SL17376R

Product Name:	CBX4
Chinese Name:	染色盒同源物4抗体
Alias:	CBX 4; CBX4; Cbx4 chromobox homolog 4 (Drosophila Pc class); CBX4_HUMAN; Chromobox homolog 4 (Pc class homolog, Drosophila); Chromobox homolog 4; Chromobox protein homolog 4; E3 SUMO protein ligase CBX 4; E3 SUMO protein ligase CBX4; E3 SUMO-protein ligase CBX4; hPc 2; hPc2; NBP 16; NBP16; NS5ATP1 binding protein 16; Pc 2; Pc class 2 homolog; Pc class homolog; Pc class homolog Drosophila; PC2; Polycomb 2 homolog.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	61kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CBX4:401-500/560
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Protamines are small, arginine-rich (basic), nuclear proteins that mediate normal sperm head condensation and DNA stabilization (1-3). Mice, humans, and certain fish have 2

or more different protamines, whereas the sperm of bull, boar, rat, rabbit, guinea pig, and ram have one form of protamine (3,4). The majority of DNA in human sperm is bound to protamines with only a small proportion of DNA bound to histones in a way similar to active chromatin (1,2). The retention of histone association with sperm DNA with respect to protamine association to sperm DNA can change within as little as 400 bp of DNA, suggesting that there is fine control over haploid DNA organization (1). Protamines eventually replace histones late in the haploid phase of spermatogenesis (1,2). The human protamine 1 gene maps to chromosome 16p13.13 and encodes a 51 amino acid protein (5). The human protamine 2 gene maps to chromosome 16p13.13 and encodes a 102 amino acid protein (6).

Function:

E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I. Component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.

Subunit:

Interacts with histone H3-K9Me3. Interacts with CHTOP (By similarity). Component of a PRC1-like complex. Self-associates. Interacts with SUV39H1 and HIPK2. Interacts with CSNK2B.

Subcellular Location:

Nucleus.

Tissue Specificity:

Ubiquitous.

Post-translational modifications:

Phosphorylated on Thr-497 by HIPK2 upon DNA damage; which enhances E3 SUMO-protein ligase activity and promotes sumoylation on Lys-494.

Similarity:

Contains 1 chromo domain.

SWISS:

O00257

Gene ID:

8535

Database links:

[Entrez Gene: 8535](#) Human

[Entrez Gene: 12418](#) Mouse

[Entrez Gene: 501403](#) Rat

[Omim: 603079](#) Human

[SwissProt: O00257](#) Human

[SwissProt: O55187](#) Mouse

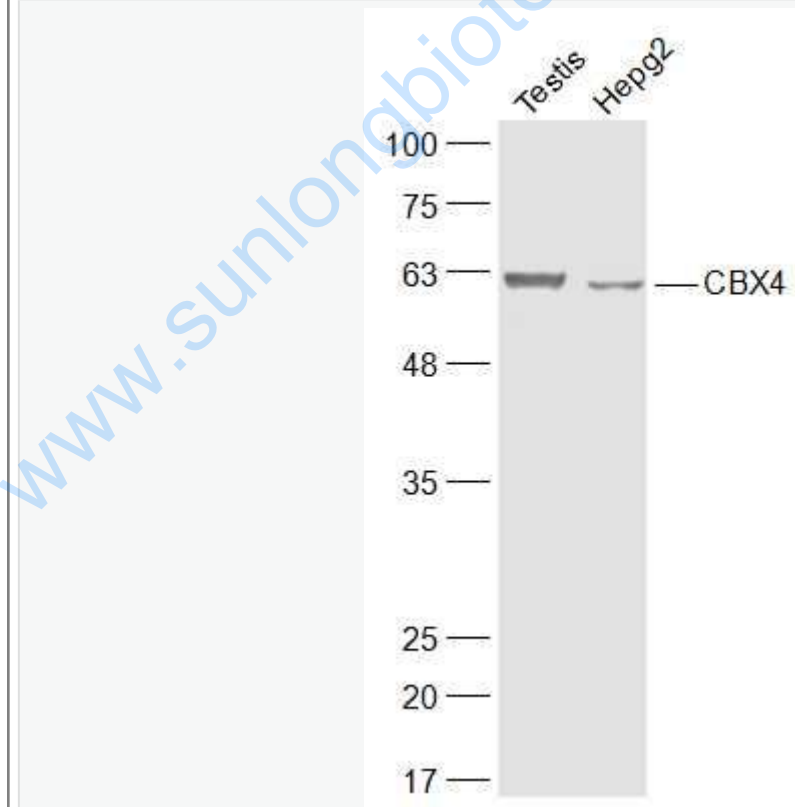
[Unigene: 268070](#) Mouse

[Unigene: 471550](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Testis(Mouse) Cell Lysate at 40 ug

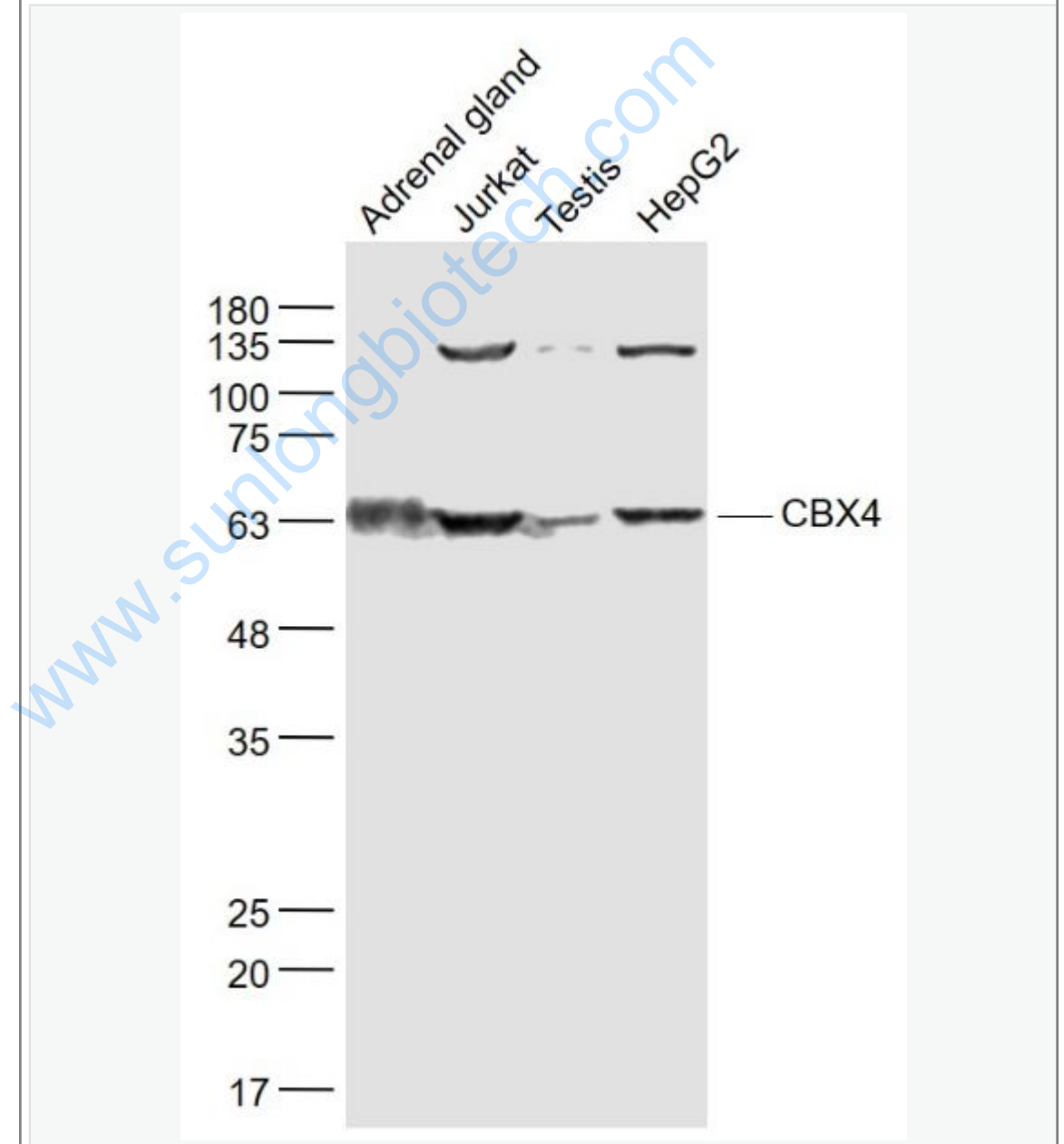
Hepg2(Human) Cell Lysate at 30 ug

Primary: Anti-CBX4 (SL17376R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD



Sample:

Adrenal gland (Mouse) Lysate at 40 ug

Jurkat(Human) Cell Lysate at 30 ug

Testis (Mouse) Lysate at 40 ug

HepG2(Human) Cell Lysate at 30 ug

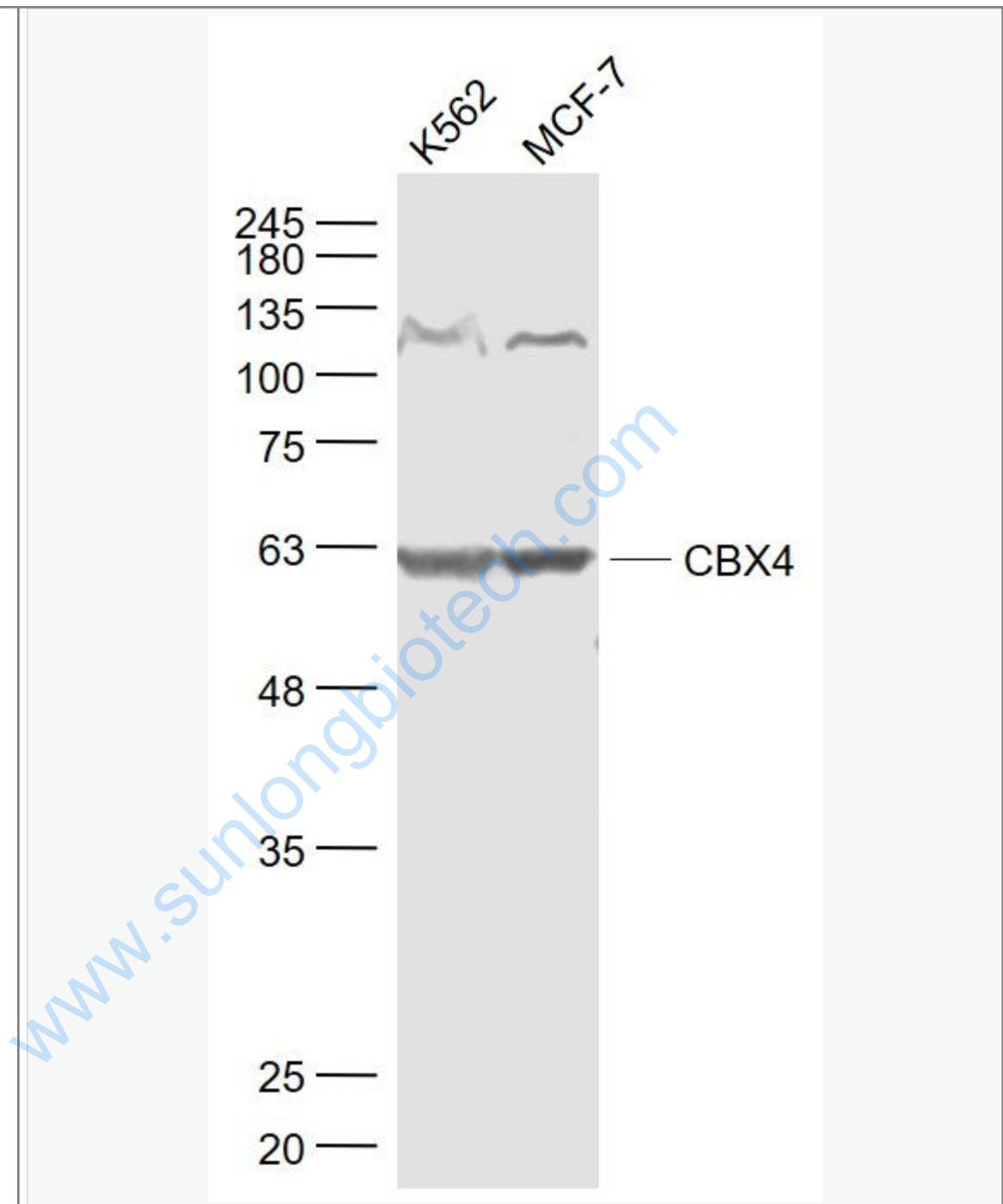
Primary: Anti- CBX4 (SL17376R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 61 kD

Observed band size: 63 kD

www.sunlongbiotech.com



Sample:

K562(Human) Cell Lysate at 30 ug

MCF-7(Human) Cell Lysate at 30 ug

Primary: Anti- CBX4 (SL17376R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 61 kD

Observed band size: 61 kD

www.sunlongbiotech.com