

# hCRBN

|                     |                                                    |
|---------------------|----------------------------------------------------|
| <b>Nomenclature</b> | C57BL/6Smoc- <i>Crbn</i> <sup>tm1(hCRBN)Smoc</sup> |
| <b>Cat. NO.</b>     | NM-HU-225071                                       |
| <b>Strain State</b> | Repository Live                                    |

## Gene Summary

|                                   |                       |                                                          |
|-----------------------------------|-----------------------|----------------------------------------------------------|
| <b>Gene Symbol</b><br><b>Crbn</b> | <b>Synonyms</b>       | piL; AF229032; AW108261;<br>2610203G15Rik; 2900045O07Rik |
|                                   | <b>NCBI ID</b>        | <a href="#">58799</a>                                    |
|                                   | <b>MGI ID</b>         | <a href="#">1913277</a>                                  |
|                                   | <b>Ensembl ID</b>     | <a href="#">ENSMUSG00000005362</a>                       |
|                                   | <b>Human Ortholog</b> | CRBN                                                     |

## Model Description

The endogenous mouse *Crbn* gene was replaced by human CRBN gene.

\*Literature published using this strain should indicate: hCRBN mice (Cat. NO. NM-HU-225071) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

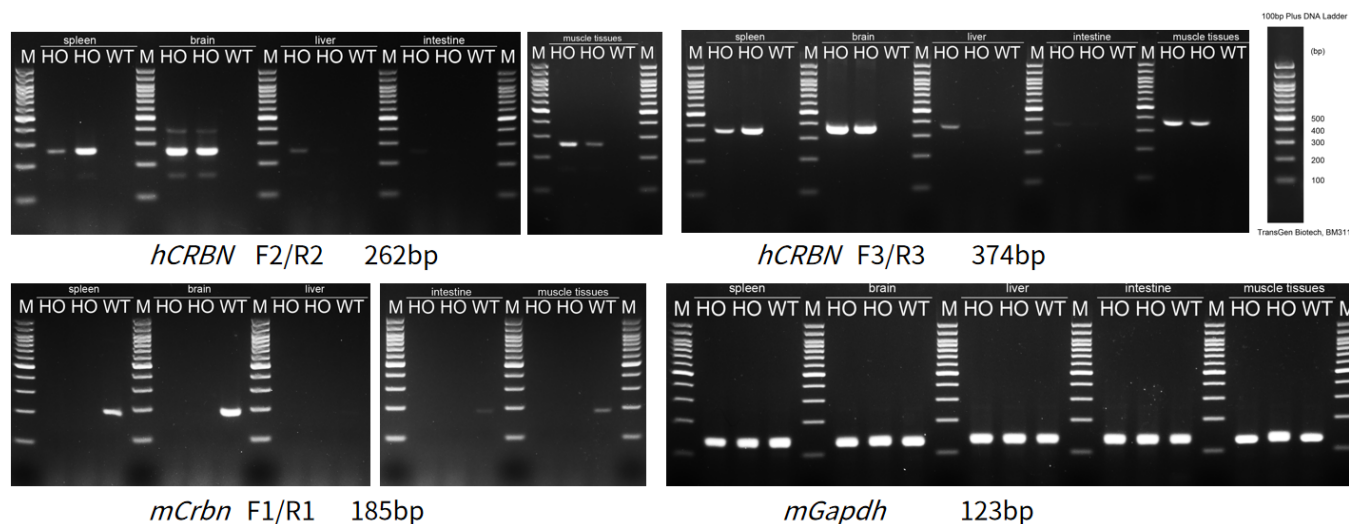


Fig1. Detection of CRBN expression in spleen, brain, liver, intestine and muscle tissues by RT-PCR.

Wild type: only one band at 185 bp with primers F1/R1 (mCrbn);

Homozygous: one band at 262 bp with primers F2/R2 (hCRBN) and one band at 374 bp with primers F3/R3 (hCRBN);

Abbr. M, DNA marker; HO, homozygous; WT, wild type.

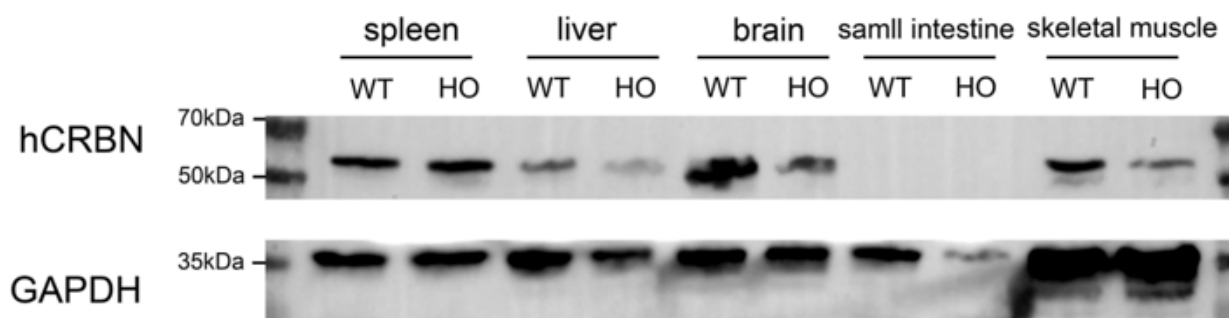


Fig2. Expression characterization of hFCRN in homozygous hCRBN KI mice by Western blot.

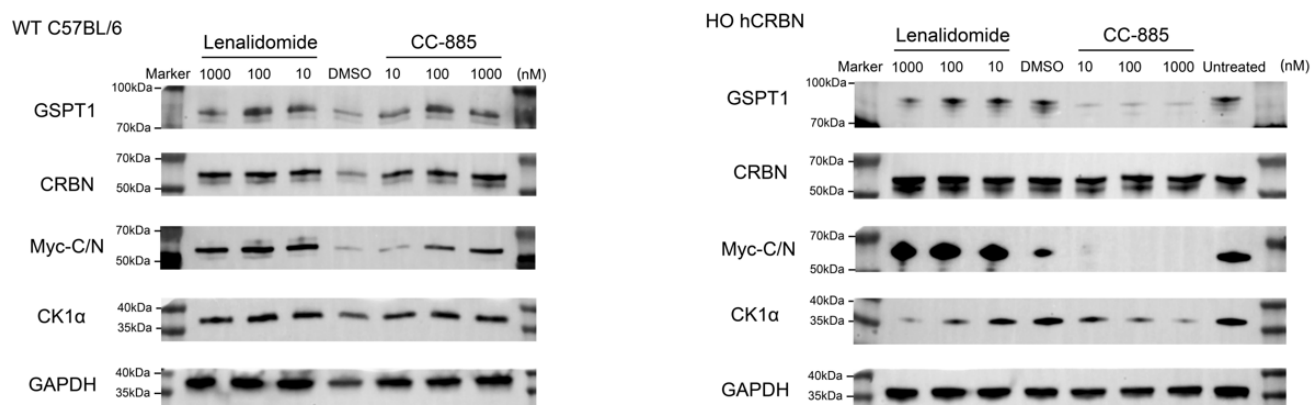


Fig3. The degradation of GSPT1, CK1a and Myc by Lenalidomide and CC-885 in hCRBN knockin mice were determined by western blot.

The splenocytes derived from wild-type C57BL/6 (WT) and homozygous hCRBN KI (HO) mice were treated with 1% DMSO, Lenalidomide (10 nM, 100 nM, 1000 nM) and CC-885 (10 nM, 100 nM, 1000 nM), respectively, in RPMI-1640 cell culture medium for 18 hours *ex vivo*.