bs-8507R **[Primary Antibody]**

Hairless Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 55806 **SWISS:** O43593

Target: Hairless

Immunogen: KLH conjugated synthetic peptide derived from human Hairless: 345-460/1189.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Hairless is a 1,189 amino acid protein which is expressed as two isoforms produced by alternative splicing. The two isoforms are expressed in a variety of tissues in varying concentrations. Isoform 1 is more abundant than isoform 2 and is expressed at low levels in kidneys and testis, while isoform 2 is expressed abundantly in skin. Both isoforms are also present together in many tissues and are expressed strongly in small intestine and brain and weakly in trachea. HR is thought to be a transcription factor involved in hair growth. Hair growth occurs in three phases known as anagen, catagen and telogen, which are phases where growth, regression and rest, respectively, are taking place. By unknown mechanisms, HR is thought to regulate one of the hair growth phases and to work with vitamin D receptor (VDR) to regulate hair follicle cycling. Defects in HR may cause two serious ailments, known as alopecia universalis congenita (ALUNC) and atrichia with papular lesions (APL), which is also referred to as congenital atrichia. Both are autosomally recessive impairments. ALUNC is a rare condition in which hair follicles are produced without hair, while APL is a serious disease in which papillary lesions may cover the body and little to no hair is grown.

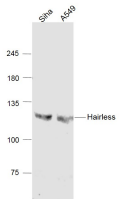
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)

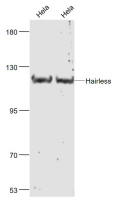
Predicted MW.: 127 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Siha(Human) Cell Lysate at 30 ug A549(Human) Cell Lysate at 30 ug Primary: Anti-Hairless (bs-8507R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 127 kD Observed band size: 127 kD



Sample: Hela (Human) Cell Lysate at 30 ug Hela(Human) Cell Lysate at 30 ug Primary: Anti-Hairless (bs-8507R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 127 kD Observed band size: 120 kD

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