



20150116ML

# Anti-Mouse H60 (#11G35)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-M398</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with mouse recombinant protein of H60.

## Target Background

<b>Synonyms (Target):</b>	H60a; H60
---------------------------	-----------

H60 was originally described as an immunodominant histocompatibility antigen that is expressed in BALB mice but not in B6 mice. More recently it was reported to function as a ligand for mouse NKG2D, an activating receptor found on NK cells, on some T cell subsets, and on stimulated macrophages. H60 shares approximately 25 percent amino acid identity with the Rae1 family, a small group of proteins that also function as ligands for mouse NKG2D. H60 and the Rae1 proteins are distantly related to MHC class I proteins, but they possess only the  $\alpha 1$  and  $\alpha 2$  Ig-like domains, and have no capacity to bind peptide or interact with  $\beta 2$ -microglobulin. The genes encoding these proteins are not found within the Major Histocompatibility Complex on mouse chromosome 17, but rather map to mouse chromosome 10. Unlike the GPI-linked Rae1 proteins, H60 appears to be anchored to the membrane via a hydrophobic transmembrane segment. H60 transcripts were found in embryonic tissue, in spleen, and in some transformed cell lines. Transcripts were also observed in mouse skin cells after exposure to carcinogens. Binding of H60 to NKG2D results in the activation of cytolytic activity and/or cytokine production by the NKG2D-expressing effector cells. Ectopic expression of H60 on mouse tumor cell lines resulted in the *in vivo* rejection of the tumors.

## Database References Target

<b>Protein RefSeq:</b>	NP_034530.1
<b>Uniprot ID:</b>	Q3TDZ7
<b>mRNA RefSeq:</b>	NM_010400.2

## Product Specifications

<b>Host</b>	Rat
<b>Reactivity against</b>	Mouse
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#11G35)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G/A chromatography
<b>Antigen</b>	Mouse recombinant protein of H60
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody detects specifically mouse H60 with WB

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB

**Recommended usage:**

**WB:** 1:50-200

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**